



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 26 November 2021

County of San Mateo,
Roofing



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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2021.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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

EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

Complete and In-Place Construction:

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

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

Demolition:

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

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

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

The Adjustment Factors Include:

BUSINESS COSTS:

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

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

CONSTRUCTION RELATED COSTS:

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

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

PRICE VARIATIONS:

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

GENERAL COSTS:

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

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

General Interpretations:

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

ASSEMBLIES:

- Assembly unit prices take precedence over individual component pricing.

TESTING:

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

MISCELLANEOUS:

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

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

SPECIFICATIONS:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

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

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

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

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



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

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

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

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

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

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

01 22 20 Wage Rates ^(01 22)

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

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

01 22 20 00-0002	HR	Asbestos Removal Worker.....	67.27
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	3.36
		For Apprentice, Deduct	-13.45
01 22 20 00-0003	HR	Insulator.....	130.02
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	6.50
		For Apprentice, Deduct	-26.00
01 22 20 00-0004	HR	Boilermaker.....	107.50
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.38
		For Apprentice, Deduct	-21.50
01 22 20 00-0005	HR	Brick Layer.....	103.89
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.19
		For Apprentice, Deduct	-20.78
01 22 20 00-0006	HR	Carpenter.....	115.85
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.79
		For Apprentice, Deduct	-23.17
01 22 20 00-0007	HR	Carpet, Linoleum.....	113.58
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.68
		For Apprentice, Deduct	-22.72
01 22 20 00-0008	HR	Cement Mason.....	82.71
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.14
		For Apprentice, Deduct	-16.54
01 22 20 00-0009	HR	Drywall Finisher.....	108.90
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.45
		For Apprentice, Deduct	-21.78
01 22 20 00-0010	HR	Electrician.....	136.06
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	6.80
		For Apprentice, Deduct	-27.21
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	104.83
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	102.52
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.13
		For Apprentice, Deduct	-20.50
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	100.28
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3).....	99.77
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.99
		For Apprentice, Deduct	-19.95
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4).....	97.95
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5).....	96.30
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6).....	94.57
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.73
		For Apprentice, Deduct	-18.91
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7).....	93.08
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019 HR Equipment Operator, Light (Group 8).....	91.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier	108.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.41	
For Apprentice, Deduct	-21.65	
01 22 20 00-0021 HR Laborer	78.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	108.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.42	
For Apprentice, Deduct	-21.67	
01 22 20 00-0023 HR Marble Setter	110.57	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.53	
For Apprentice, Deduct	-22.11	
01 22 20 00-0024 HR Millwright.....	106.53	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.31	
01 22 20 00-0025 HR Mold Removal Worker	82.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.11	
For Apprentice, Deduct	-16.46	
01 22 20 00-0026 HR Painter, Ordinary.....	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0027 HR Painter, Structural Steel.....	97.02	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.85	
For Apprentice, Deduct	-19.40	
01 22 20 00-0028 HR Paperhanger	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0029 HR Pile Drivers	117.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.87	
For Apprentice, Deduct	-23.46	
01 22 20 00-0030 HR Plasterer	103.56	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.18	
For Apprentice, Deduct	-20.71	
01 22 20 00-0031 HR Plumber	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0032 HR Powderman.....	82.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.12	
For Apprentice, Deduct	-16.49	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	100.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.09	
01 22 20 00-0034 HR Roofer, Composite.....	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0035 HR Roofer, Metal	169.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	8.49	
For Apprentice, Deduct	-33.94	
01 22 20 00-0036 HR Roofer, Tile/Slate	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0037 HR Sheet Metal Worker	138.86	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.94	
For Apprentice, Deduct	-27.77	
01 22 20 00-0038 HR Sprinkler Installer	133.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.68	
For Apprentice, Deduct	-26.72	
01 22 20 00-0039 HR Steam / Pipe Fitter	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0040 HR Stone Mason.....	102.95	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.15	
For Apprentice, Deduct	-20.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0041 HR Iron Worker (Structural)	103.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.16	
For Apprentice, Deduct	-20.65	
01 22 20 00-0042 HR Tile Layer	92.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.62	
For Apprentice, Deduct	-18.49	
01 22 20 00-0043 HR Terrazzo Worker	100.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.06	
01 22 20 00-0044 HR Truck Driver, Light (Group 1)	79.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.99	
For Apprentice, Deduct	-15.95	
01 22 20 00-0045 HR Truck Driver, Medium (Group 2)	80.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Truck Driver, Heavy (Group 3)	80.59	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.03	
For Apprentice, Deduct	-16.12	
01 22 20 00-0047 HR Truck Driver, Heavy (Group 4)	81.08	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class I Diver	204.13	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR Class III Diver Tender	123.27	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR D1 Certified Welder	108.93	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051 Rates For Services (01 22 20)		
01 22 20 00-0052 HR Watch/Guard Person, Unarmed	34.42	
01 22 20 00-0053 HR Watch/Guard Person, Armed	44.36	
01 22 20 00-0054 HR Surveyor (Rod Person)	99.08	
01 22 20 00-0055 HR Senior Surveyor (Party Chief)	108.23	
01 22 20 00-0056 HR Surveyor (Instrument person)	103.50	
01 22 20 00-0057 HR On-Site Certified Materials Testing Technician	96.92	
01 22 20 00-0058 HR Certified Industrial Hygienist	130.82	
01 22 20 00-0059 MI Mileage For Professional Services (Engineering, Surveying, Etcetera)	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0060 HR Fire Watch Laborer	78.30	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0061 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0062 HR Principal Architect	212.52	
01 22 20 00-0063 HR Senior Architect	187.22	
01 22 20 00-0064 HR Architect	142.94	
01 22 20 00-0065 HR Principal Engineer	212.52	
01 22 20 00-0066 HR Senior Engineer	161.92	
01 22 20 00-0067 HR Engineer	129.03	
01 22 20 00-0068 HR Draft Person	76.53	
01 22 20 00-0069 HR Project Manager	151.80	
01 22 20 00-0070 Rates For Traffic Control (01 22 20)		
01 22 20 00-0071 DAY Pilot Vehicle With Driver	957.60	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0072 HR Flagperson For Traffic Control	78.30	
01 22 20 00-0073 Mobilize Equipment (01 22 20)		
01 22 20 00-0074 HR Escort Vehicle With Driver	89.23	
01 22 20 00-0075 HR Transport Vehicle With Driver	122.32	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0070 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		

01	01	General Requirements
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	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0002	Man Lifts <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0003	Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0003)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform 428.11	
	<i>For Four-Wheel Drive, Add</i> 96.32	
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform 1,077.18	
	<i>For Four-Wheel Drive, Add</i> 242.37	
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform 2,416.75	
	<i>For Four-Wheel Drive, Add</i> 543.77	
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform 628.36	
	<i>For Four-Wheel Drive, Add</i> 141.38	
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform 1,498.38	
	<i>For Four-Wheel Drive, Add</i> 337.14	
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform 3,279.88	
	<i>For Four-Wheel Drive, Add</i> 737.97	
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform 1,222.18	
	<i>For Four-Wheel Drive, Add</i> 274.99	
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform 2,962.24	
	<i>For Four-Wheel Drive, Add</i> 666.50	
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform 6,214.50	
	<i>For Four-Wheel Drive, Add</i> 1,398.26	
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform 1,740.06	
	<i>For Four-Wheel Drive, Add</i> 391.51	
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform 4,189.95	
	<i>For Four-Wheel Drive, Add</i> 942.74	
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform 10,440.36	
	<i>For Four-Wheel Drive, Add</i> 2,349.08	
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform 2,119.84	
	<i>For Four-Wheel Drive, Add</i> 476.96	
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform 5,406.62	
	<i>For Four-Wheel Drive, Add</i> 1,216.49	
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform 12,290.90	
	<i>For Four-Wheel Drive, Add</i> 2,765.45	
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 488.70	
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,068.17	
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,651.57	
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 628.34	
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,452.15	
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 3,246.40	
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,096.10	
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,583.16	
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 6,281.95	
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,129.36	
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 5,026.68	
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 12,287.44	
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 474.74	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,026.28	
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,548.25	
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 474.74	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,026.28	
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,548.25	
01 22 23 00-0050	Platform Lifts <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0051	Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small> Note: For use on paved surfaces.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift.....	159.72	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift.....	319.44	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift.....	653.40	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift.....	174.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	348.48	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	696.96	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	225.06	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	450.12	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	965.58	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	290.40	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	573.54	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,270.50	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	312.18	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	609.84	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,379.40	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	406.56	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,009.14	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,809.62	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	326.70	
<i>For Four-Wheel Drive, Add</i>		
	<i>65.34</i>	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	638.88	
<i>For Four-Wheel Drive, Add</i>		
	<i>127.78</i>	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,560.90	
<i>For Four-Wheel Drive, Add</i>		
	<i>312.18</i>	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	333.96	
<i>For Four-Wheel Drive, Add</i>		
	<i>66.79</i>	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	762.30	
<i>For Four-Wheel Drive, Add</i>		
	<i>152.46</i>	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,669.80	
<i>For Four-Wheel Drive, Add</i>		
	<i>333.96</i>	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	370.26	
<i>For Four-Wheel Drive, Add</i>		
	<i>74.05</i>	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	849.42	
<i>For Four-Wheel Drive, Add</i>		
	<i>169.88</i>	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	1,887.60	
<i>For Four-Wheel Drive, Add</i>		
	<i>377.52</i>	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	392.04	
<i>For Four-Wheel Drive, Add</i>		
	<i>78.41</i>	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	914.76	
<i>For Four-Wheel Drive, Add</i>		
	<i>182.95</i>	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,250.60	
<i>For Four-Wheel Drive, Add</i>		
	<i>450.12</i>	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	733.26	
<i>For Four-Wheel Drive, Add</i>		
	<i>146.65</i>	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,611.72	
<i>For Four-Wheel Drive, Add</i>		
	<i>322.34</i>	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	3,963.96	
<i>For Four-Wheel Drive, Add</i>		
	<i>792.79</i>	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	143.20	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	405.73	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	819.42	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	198.89	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	421.64	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,431.99	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	334.13	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	811.46	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,370.74	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	358.00	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	891.02	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,681.00	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	763.73	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	793.96	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,173.19	
<i>For Equipment Without Operator, Deduct</i>		
	<i>-644.75</i>	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,809.08	
<i>For Equipment Without Operator, Deduct</i>		
	<i>-3,223.76</i>	

01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator	18,005.01	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator	1,240.45	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator	5,025.26	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator	18,581.49	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator	1,413.39	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator	5,337.52	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator	19,254.05	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,797.71	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,586.56	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	22,616.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	1,989.87	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,259.12	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	25,018.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0121 Air Equipment (01 22 23)		
01 22 23 00-0122 Air Compressors (01 22 23 00-0121)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor	154.66	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor	463.97	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor	1,288.81	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor	185.59	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor	546.46	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor	1,546.58	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor	247.45	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor	556.77	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor	1,226.95	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor	350.56	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor	886.70	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor	2,113.65	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor	779.47	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor	1,876.51	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor	4,676.84	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,092.91	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,449.77	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor	6,532.73	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,360.99	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,062.22	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,165.92	
01 22 23 00-0150 Portable Negative Air Machines (01 22 23 00-0121)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine	81.38	
01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine	334.24	
01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine	1,009.97	
01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines	14.19	
01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines	34.14	
01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	181.16	
01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines	1.37	
01 22 23 00-0158 Portable Air Scrubbers (01 22 23 00-0121)		
Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.		
01 22 23 00-0159 DAY Up To 1,000 CFM, Portable Air Scrubber	87.16	
01 22 23 00-0160 WK Up To 1,000 CFM, Portable Air Scrubber	362.28	
01 22 23 00-0161 MO Up To 1,000 CFM, Portable Air Scrubber	1,002.85	
01 22 23 00-0162 DAY >1,000 to 2,000 CFM, Portable Air Scrubber	110.26	
01 22 23 00-0163 WK >1,000 to 2,000 CFM, Portable Air Scrubber	456.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0164 MO >1,000 to 2,000 CFM, Portable Air Scrubber.....	1,338.88	
01 22 23 00-0165 DAY >2,000 To 5,000 CFM, Portable Air Scrubber.....	141.76	
01 22 23 00-0166 WK >2,000 To 5,000 CFM, Portable Air Scrubber.....	603.81	
01 22 23 00-0167 MO >2,000 To 5,000 CFM, Portable Air Scrubber.....	1,690.66	
01 22 23 00-0168 EA First Stage Pre-Filter For Portable Air Scrubbers	20.49	
01 22 23 00-0169 EA Second Stage Pre-Filter For Portable Air Scrubbers	28.89	
01 22 23 00-0170 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers.....	307.17	
01 22 23 00-0171 Compaction And Paving Equipment <small>(01 22 23)</small>		
01 22 23 00-0172 Pavers And Rollers <small>(01 22 23 00-0171)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0173 Pavers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0174 DAY 10' Wide Paving Machine With Full-Time Operator	3,213.16	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0175 WK 10' Wide Paving Machine With Full-Time Operator	13,650.85	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0176 MO 10' Wide Paving Machine With Full-Time Operator	51,794.30	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0178 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,167.25	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0179 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,107.16	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0180 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	20,324.08	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0181 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,309.69	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0182 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,166.47	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0183 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	21,923.40	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0184 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,316.17	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0185 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	5,745.59	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0186 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	22,234.20	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0188 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,225.52	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0189 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,175.79	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0190 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,719.06	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0191 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,497.47	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0192 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,726.17	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0193 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,454.36	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0194 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,562.22	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0195 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,134.09	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0196 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,593.96	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0197 Towed, Padfoot Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0198 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	123.02	
01 22 23 00-0199 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	356.12	
01 22 23 00-0200 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,048.95	
01 22 23 00-0201 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	155.40	
01 22 23 00-0202 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	433.82	
01 22 23 00-0203 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,845.38	
01 22 23 00-0204 Static Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,257.89	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,454.22	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0207 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	21,632.03	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0208 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,400.35	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	

01	General Requirements
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0209	WK		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,842.72	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0210	MO		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	22,706.88	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0211			Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0172)		
01 22 23 00-0212	DAY		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,212.57	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0213	WK		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,214.65	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0214	MO		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,531.28	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0215	DAY		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,296.75	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0216	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,460.69	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0217	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,172.30	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0218	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,465.09	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0219	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,952.79	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0220	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,473.78	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0221			Steel Roadway Plates (01 22 23 00-0171)		
			Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0222	EA		Placement And Removal Of Steel Roadway Plates.....	50.85	
01 22 23 00-0223	DAY		1" x 4' x 8' Steel Plate	37.51	
01 22 23 00-0224	WK		1" x 4' x 8' Steel Plate	88.56	
01 22 23 00-0225	MO		1" x 4' x 8' Steel Plate	116.55	
01 22 23 00-0226	DAY		1" x 4' x 10' Steel Plate	50.01	
01 22 23 00-0227	WK		1" x 4' x 10' Steel Plate	112.53	
01 22 23 00-0228	MO		1" x 4' x 10' Steel Plate	137.53	
01 22 23 00-0229	DAY		1" x 5' x 10' Steel Plate	52.10	
01 22 23 00-0230	WK		1" x 5' x 10' Steel Plate	117.73	
01 22 23 00-0231	MO		1" x 5' x 10' Steel Plate	312.57	
01 22 23 00-0232	DAY		1" x 6' x 8' Steel Plate	33.34	
01 22 23 00-0233	WK		1" x 6' x 8' Steel Plate	75.02	
01 22 23 00-0234	MO		1" x 6' x 8' Steel Plate	200.04	
01 22 23 00-0235	DAY		1" x 6' x 10' Steel Plate	62.51	
01 22 23 00-0236	WK		1" x 6' x 10' Steel Plate	82.31	
01 22 23 00-0237	MO		1" x 6' x 10' Steel Plate	219.84	
01 22 23 00-0238	DAY		1" x 6' x 12' Steel Plate	87.52	
01 22 23 00-0239	WK		1" x 6' x 12' Steel Plate	112.00	
01 22 23 00-0240	MO		1" x 6' x 12' Steel Plate	303.19	
01 22 23 00-0241	DAY		1" x 8' x 10' Steel Plate	55.22	
01 22 23 00-0242	WK		1" x 8' x 10' Steel Plate	123.99	
01 22 23 00-0243	MO		1" x 8' x 10' Steel Plate	330.28	
01 22 23 00-0244	DAY		1" x 8' x 12' Steel Plate	100.02	
01 22 23 00-0245	WK		1" x 8' x 12' Steel Plate	123.99	
01 22 23 00-0246	MO		1" x 8' x 12' Steel Plate	600.13	
01 22 23 00-0247	DAY		1" x 8' x 16' Steel Plate	133.36	
01 22 23 00-0248	WK		1" x 8' x 16' Steel Plate	300.07	
01 22 23 00-0249	MO		1" x 8' x 16' Steel Plate	800.18	
01 22 23 00-0250	LF		Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.15	0.97
01 22 23 00-0251	EA		Removal And Resetting Of Steel Roadway Plate	28.25	
01 22 23 00-0252			Street Sweepers (01 22 23 00-0171)		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0253	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	955.91	
			<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0254	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,572.72	
			<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0255	MO		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,206.31	
			<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0256	DAY		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,677.94	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0257	WK		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	7,473.37	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0258	MO		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	29,562.76	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0259			Earthmoving Equipment (01 22 23)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0260

Skid-Steer Loaders (01 22 23 00-0259)

Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.

01 22 23 00-0261	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		1,077.82	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0262	WK	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		4,625.51	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0263	MO	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		18,421.30	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0264	DAY	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		1,162.51	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0265	WK	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		4,778.76	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0266	MO	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		18,757.38	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0267	DAY	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		1,186.71	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0268	WK	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		4,999.22	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0269	MO	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		19,342.15	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0270	DAY	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		1,280.81	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0271	WK	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		5,308.41	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0272	MO	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		20,363.82	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0273	DAY	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		1,442.12	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0274	WK	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		5,920.07	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0275	MO	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		21,869.43	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0276	DAY	Hydraulic Hammer Attachment For Skid-Steer Loaders		268.86	
01 22 23 00-0277	WK	Hydraulic Hammer Attachment For Skid-Steer Loaders		893.96	
01 22 23 00-0278	MO	Hydraulic Hammer Attachment For Skid-Steer Loaders		2,379.41	
01 22 23 00-0279	DAY	Forklift Attachment For Skid-Steer Loaders		57.80	
01 22 23 00-0280	WK	Forklift Attachment For Skid-Steer Loaders		154.59	
01 22 23 00-0281	MO	Forklift Attachment For Skid-Steer Loaders		436.90	
01 22 23 00-0282	DAY	Backhoe Attachment For Skid-Steer Loaders		127.71	
01 22 23 00-0283	WK	Backhoe Attachment For Skid-Steer Loaders		306.50	
01 22 23 00-0284	MO	Backhoe Attachment For Skid-Steer Loaders		762.22	
01 22 23 00-0285	DAY	Broom Attachment For Skid-Steer Loaders		126.36	
01 22 23 00-0286	WK	Broom Attachment For Skid-Steer Loaders		342.80	
01 22 23 00-0287	MO	Broom Attachment For Skid-Steer Loaders		907.40	
01 22 23 00-0288	DAY	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		110.23	
01 22 23 00-0289	WK	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		303.81	
01 22 23 00-0290	MO	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		829.43	
01 22 23 00-0291	DAY	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		30.38	
01 22 23 00-0292	WK	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		79.49	
01 22 23 00-0293	MO	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		233.79	
01 22 23 00-0294	DAY	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		40.91	
01 22 23 00-0295	WK	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		101.70	
01 22 23 00-0296	MO	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		303.93	
01 22 23 00-0297	DAY	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		59.61	
01 22 23 00-0298	WK	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		181.20	
01 22 23 00-0299	MO	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		537.72	
01 22 23 00-0300	DAY	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		12.10	
01 22 23 00-0301	WK	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		28.23	
01 22 23 00-0302	MO	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		75.28	

01 22 23 00-0303

Bulldozers (01 22 23 00-0259)

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

01 22 23 00-0304	DAY	70 HP, D3 Bulldozer With Full-Time Operator		1,228.56	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0305	WK	70 HP, D3 Bulldozer With Full-Time Operator		5,688.05	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0306	MO	70 HP, D3 Bulldozer With Full-Time Operator		22,328.49	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	
01 22 23 00-0307	DAY	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		1,431.57	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0308	WK	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		6,508.23	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0309	MO	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		24,845.84	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	
01 22 23 00-0310	DAY	140 HP, D6 Bulldozer With Full-Time Operator		2,008.12	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0311	WK	140 HP, D6 Bulldozer With Full-Time Operator		8,814.45	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0312	MO	140 HP, D6 Bulldozer With Full-Time Operator		31,748.27	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0313 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,519.72	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0314 WK 200 HP, D7 Bulldozer With Full-Time Operator	10,868.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0315 MO 200 HP, D7 Bulldozer With Full-Time Operator	37,919.85	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0316 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,128.75	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0317 WK 335 HP, D8 Bulldozer With Full-Time Operator	13,305.08	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0318 MO 335 HP, D8 Bulldozer With Full-Time Operator	45,228.30	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0319 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,469.81	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0320 WK 460 HP, D9 Bulldozer With Full-Time Operator	14,661.21	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0321 MO 460 HP, D9 Bulldozer With Full-Time Operator	49,288.55	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0322 Motor Scraper <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0323 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	1,770.17	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0324 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	7,878.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0325 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	28,944.40	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0326 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,162.96	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0327 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	9,450.02	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0328 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	33,671.23	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0329 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	2,542.43	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0330 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	10,961.27	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0331 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	38,198.33	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0332 Hydraulic Excavators <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0333 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,152.11	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0334 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,242.78	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0335 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	21,488.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0336 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,251.74	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0337 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	5,681.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0338 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	23,245.27	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0339 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,283.20	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0340 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	5,845.79	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0341 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	23,533.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0342 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,315.98	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0343 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	5,996.55	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0344 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	23,822.06	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0345 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,342.19	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0346 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,153.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0347 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	24,110.46	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0348 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,696.14	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0349 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,563.07	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0350 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	28,010.39	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0351 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,748.57	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0352 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	7,792.48	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0353 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	28,698.61 -17,293.78	
01 22 23 00-0354 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,846.89 -798.17	
01 22 23 00-0355 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,185.75 -3,990.87	
01 22 23 00-0356 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,878.42 -17,293.78	
01 22 23 00-0357 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,958.32 -798.17	
01 22 23 00-0358 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	8,624.90 -3,990.87	
01 22 23 00-0359 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	31,189.32 -17,293.78	
01 22 23 00-0360 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,991.09 -798.17	
01 22 23 00-0361 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,755.99 -3,990.87	
01 22 23 00-0362 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,952.59 -17,293.78	
01 22 23 00-0363 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,305.71 -798.17	
01 22 23 00-0364 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	10,021.01 -3,990.87	
01 22 23 00-0365 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	35,384.20 -17,293.78	
01 22 23 00-0366 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,757.97 -798.17	
01 22 23 00-0367 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	11,816.94 -3,990.87	
01 22 23 00-0368 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	40,758.89 -17,293.78	
01 22 23 00-0369 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	91.76	
01 22 23 00-0370 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	353.94	
01 22 23 00-0371 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0372 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	406.38	
01 22 23 00-0373 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,074.94	
01 22 23 00-0374 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,008.52	
01 22 23 00-0375 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	629.23	
01 22 23 00-0376 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,605.85	
01 22 23 00-0377 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,175.22	
01 22 23 00-0378 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	878.30	
01 22 23 00-0379 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,366.17	
01 22 23 00-0380 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,633.15	
01 22 23 00-0381 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	183.53	
01 22 23 00-0382 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	734.10	
01 22 23 00-0383 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,202.31	
01 22 23 00-0384 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	262.18	
01 22 23 00-0385 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0386 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,146.16	
01 22 23 00-0387 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	288.40	
01 22 23 00-0388 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,140.48	
01 22 23 00-0389 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,408.34	
01 22 23 00-0390 Mini-Excavators <small>(01 22 23 00-0259)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0391 DAY 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,073.46 -798.17	
01 22 23 00-0392 WK 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,770.86 -3,990.87	
01 22 23 00-0393 MO 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,011.06 -17,293.78	
01 22 23 00-0394 DAY 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,080.01 -798.17	
01 22 23 00-0395 WK 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,790.52 -3,990.87	
01 22 23 00-0396 MO 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,423.99 -17,293.78	
01 22 23 00-0397 DAY 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,112.79 -798.17	
01 22 23 00-0398 WK 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,882.28 -3,990.87	
01 22 23 00-0399 MO 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,482.98 -17,293.78	
01 22 23 00-0400 DAY 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,125.89 -798.17	
01 22 23 00-0401 WK 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,928.16 -3,990.87	
01 22 23 00-0402 MO 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,509.20 -17,293.78	
01 22 23 00-0403 DAY 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,204.55 -798.17	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0404 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	4,993.71	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0405 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	20,269.52	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0406 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,211.10	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0407 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,321.43	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0408 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	20,302.30	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0409 Road Graders <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0410 DAY 60 HP Road Grader With Full-Time Operator.....	1,348.61	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0411 WK 60 HP Road Grader With Full-Time Operator.....	5,479.89	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0412 MO 60 HP Road Grader With Full-Time Operator.....	21,746.72	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0413 DAY 80 HP Road Grader With Full-Time Operator.....	1,510.92	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0414 WK 80 HP Road Grader With Full-Time Operator.....	5,931.53	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0415 MO 80 HP Road Grader With Full-Time Operator.....	23,115.76	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0416 DAY 130 HP Road Grader With Full-Time Operator.....	1,401.01	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0417 WK 130 HP Road Grader With Full-Time Operator.....	6,402.23	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0418 MO 130 HP Road Grader With Full-Time Operator.....	25,911.22	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0419 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0420 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,170.99	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0421 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	4,876.32	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0422 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	19,377.58	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0423 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,210.93	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0424 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,016.13	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0425 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	20,229.74	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0426 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,272.52	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0427 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,169.25	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0428 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	20,669.13	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0429 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,547.14	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0430 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	5,988.12	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0431 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	23,012.57	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0432 Heavy Duty Construction Loaders <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0433 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,266.40	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0434 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	5,842.17	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0435 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	22,840.48	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0436 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,655.39	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0437 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,267.18	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0438 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,056.58	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0439 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,741.83	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0440 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,497.69	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0441 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,632.86	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0442 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,979.54	
<i>For Equipment Without Operator, Deduct</i>	-798.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0443 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	7,124.39	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0444 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	25,217.63	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0445 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,591.84	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0446 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	11,151.15	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0447 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	38,760.21	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0448 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	6,625.73	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0449 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	22,914.26	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0450 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	68,865.15	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0451 Shoring <small>(01 22 23 00-0259)</small>		
<i>Note: Includes delivery to job site and pick-up when complete.</i>		
01 22 23 00-0452 Aluminum Hydraulic Shoring <small>(01 22 23 00-0451)</small>		
<i>Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.</i>		
01 22 23 00-0453 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	70.11	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0454 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	206.79	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0455 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	94.05	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0456 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	277.41	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0457 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	174.39	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0458 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	514.46	
<i>Note: Up to 88" spread width.</i>		
01 22 23 00-0459 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	24.66	
01 22 23 00-0460 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	39.46	
01 22 23 00-0461 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	65.76	
01 22 23 00-0462 Trench Boxes/Trench Shields <small>(01 22 23 00-0259)</small>		
<i>Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.</i>		
01 22 23 00-0463 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	188.87	
01 22 23 00-0464 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	566.60	
01 22 23 00-0465 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	213.24	
01 22 23 00-0466 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	639.71	
01 22 23 00-0467 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	225.42	
01 22 23 00-0468 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	676.27	
01 22 23 00-0469 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	207.14	
01 22 23 00-0470 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	621.44	
01 22 23 00-0471 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	243.70	
01 22 23 00-0472 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	731.10	
01 22 23 00-0473 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0474 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0475 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	231.52	
01 22 23 00-0476 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	694.54	
01 22 23 00-0477 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0478 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0479 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0480 MO 8' x 10' Trench Box With Up To 48" Spreaders.....	999.17	
01 22 23 00-0481 WK 4' x 12' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0482 MO 4' x 12' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0483 WK 6' x 12' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0484 MO 6' x 12' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0485 WK 8' x 12' Trench Box With Up To 48" Spreaders.....	426.48	
01 22 23 00-0486 MO 8' x 12' Trench Box With Up To 48" Spreaders.....	1,279.42	
01 22 23 00-0487 WK 4' x 14' Trench Box With Up To 48" Spreaders.....	304.62	
01 22 23 00-0488 MO 4' x 14' Trench Box With Up To 48" Spreaders.....	913.88	
01 22 23 00-0489 WK 6' x 14' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0490 MO 6' x 14' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0491 WK 8' x 14' Trench Box With Up To 48" Spreaders.....	487.40	
01 22 23 00-0492 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,462.20	
01 22 23 00-0493 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0494 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0495 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	456.94	
01 22 23 00-0496 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,370.81	
01 22 23 00-0497 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0498 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	1,644.98	
01 22 23 00-0499 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0500 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0501 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0502 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	1,644.98	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 22 23 00-0503	WK	8' x 20' Trench Box With Up To 48" Spreaders.....	639.71	
	01 22 23 00-0504	MO	8' x 20' Trench Box With Up To 48" Spreaders.....	1,919.14	
	01 22 23 00-0505	WK	4' x 24' Trench Box With Up To 48" Spreaders.....	548.32	
	01 22 23 00-0506	MO	4' x 24' Trench Box With Up To 48" Spreaders.....	1,644.98	
	01 22 23 00-0507	WK	6' x 24' Trench Box With Up To 48" Spreaders.....	670.18	
	01 22 23 00-0508	MO	6' x 24' Trench Box With Up To 48" Spreaders.....	2,010.52	
	01 22 23 00-0509	WK	8' x 24' Trench Box With Up To 48" Spreaders.....	731.10	
	01 22 23 00-0510	MO	8' x 24' Trench Box With Up To 48" Spreaders.....	2,193.30	
	01 22 23 00-0511	WK	For Spreaders >48" To 84", Add.....	18.28	
	01 22 23 00-0512	MO	For Spreaders >48" To 84", Add.....	54.83	
	01 22 23 00-0513	WK	For Spreaders >84" To 120", Add.....	109.66	
	01 22 23 00-0514	MO	For Spreaders >84" To 120", Add.....	329.00	
	01 22 23 00-0515	WK	For Spreaders >120", Add.....	231.52	
	01 22 23 00-0516	MO	For Spreaders >120", Add.....	694.54	
	01 22 23 00-0517	WK	8' x 4' Manhole Box.....	287.87	
	01 22 23 00-0518	MO	8' x 4' Manhole Box.....	863.61	
	01 22 23 00-0519	WK	8' x 8' Manhole Box.....	411.24	
	01 22 23 00-0520	MO	8' x 8' Manhole Box.....	1,233.73	
01 22 23 00-0521			Trenchers (01 22 23 00-0259)		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
	01 22 23 00-0522	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,102.23	
			For Equipment Without Operator, Deduct.....	-756.53	
	01 22 23 00-0523	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	4,960.16	
			For Equipment Without Operator, Deduct.....	-3,782.63	
	01 22 23 00-0524	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	19,632.31	
			For Equipment Without Operator, Deduct.....	-16,391.41	
	01 22 23 00-0525	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,685.59	
			For Equipment Without Operator, Deduct.....	-756.53	
	01 22 23 00-0526	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	6,926.30	
			For Equipment Without Operator, Deduct.....	-3,782.63	
	01 22 23 00-0527	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	25,033.81	
			For Equipment Without Operator, Deduct.....	-16,391.41	
01 22 23 00-0528			Portable Sediment Tank (01 22 23 00-0259)		
	Note: Includes delivery to job site and pick-up when complete.				
	01 22 23 00-0529	WK	Portable Sediment Tank.....	161.08	
	01 22 23 00-0530	MO	Portable Sediment Tank.....	472.52	
01 22 23 00-0531			Heavy Equipment (Wood Ground Protection) Mats (01 22 23 00-0259)		
	Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0259 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.				
	01 22 23 00-0532	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	21.12	
	01 22 23 00-0533	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	50.29	
	01 22 23 00-0534	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	105.60	
	01 22 23 00-0535	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	22.18	
	01 22 23 00-0536	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	52.80	
	01 22 23 00-0537	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	110.88	
	01 22 23 00-0538	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	17.95	
	01 22 23 00-0539	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	42.24	
	01 22 23 00-0540	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	89.76	
	01 22 23 00-0541	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	20.06	
	01 22 23 00-0542	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	47.52	
	01 22 23 00-0543	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	100.32	
	01 22 23 00-0544	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	22.18	
	01 22 23 00-0545	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	52.80	
	01 22 23 00-0546	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	110.88	
	01 22 23 00-0547	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	24.29	
	01 22 23 00-0548	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	57.83	
	01 22 23 00-0549	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	121.44	
	01 22 23 00-0550	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	19.01	
	01 22 23 00-0551	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
	01 22 23 00-0552	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	95.04	
	01 22 23 00-0553	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	22.18	
	01 22 23 00-0554	WK	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
	01 22 23 00-0555	MO	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	110.88	
	01 22 23 00-0556	Day	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	26.40	
	01 22 23 00-0557	WK	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	58.08	
	01 22 23 00-0558	MO	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	132.00	
	01 22 23 00-0559	Day	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	28.51	
	01 22 23 00-0560	WK	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	67.89	
	01 22 23 00-0561	MO	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	142.56	
	01 22 23 00-0562	Day	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	30.62	
	01 22 23 00-0563	WK	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	72.91	
	01 22 23 00-0564	MO	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	153.12	
	01 22 23 00-0565	Day	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.68	
	01 22 23 00-0566	WK	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	75.43	
	01 22 23 00-0567	MO	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.40	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				01 22 23 00-0568 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.16	
				01 22 23 00-0569 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.40	
				01 22 23 00-0570 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	76.19	
				01 22 23 00-0571 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.14	
				01 22 23 00-0572 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	30.36	
				01 22 23 00-0573 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	91.08	
				01 22 23 00-0574 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.87	
				01 22 23 00-0575 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.67	
				01 22 23 00-0576 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	104.02	
				01 22 23 00-0577 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.78	
				01 22 23 00-0578 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	36.96	
				01 22 23 00-0579 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	110.88	
				01 22 23 00-0580 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.90	
				01 22 23 00-0581 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.24	
				01 22 23 00-0582 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.72	
				01 22 23 00-0583 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.42	
				01 22 23 00-0584 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.54	
				01 22 23 00-0585 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	145.62	
				01 22 23 00-0586 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.94	
				01 22 23 00-0587 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	37.35	
				01 22 23 00-0588 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	112.04	
				01 22 23 00-0589 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.23	
				01 22 23 00-0590 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.56	
				01 22 23 00-0591 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	151.69	
				01 22 23 00-0592 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	17.49	
				01 22 23 00-0593 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	43.72	
				01 22 23 00-0594 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	131.16	
				01 22 23 00-0595 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.17	
				01 22 23 00-0596 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.91	
				01 22 23 00-0597 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	218.74	
				01 22 23 00-0598 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	31.09	
				01 22 23 00-0599 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	77.72	
				01 22 23 00-0600 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	233.16	
				01 22 23 00-0601 Electrical Equipment (01 22 23)		
				01 22 23 00-0602 Tripod Mounted Floodlights (01 22 23 00-0601)		
				Note: Includes delivery to job site and pick-up when complete.		
				01 22 23 00-0603 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	64.93	
				01 22 23 00-0604 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	153.61	
				01 22 23 00-0605 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	324.64	
				01 22 23 00-0606 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	64.93	
				01 22 23 00-0607 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	190.03	
				01 22 23 00-0608 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	562.18	
				01 22 23 00-0609 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	72.85	
				01 22 23 00-0610 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	197.95	
				01 22 23 00-0611 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	483.00	
				01 22 23 00-0612 Trailer Mounted Floodlights (01 22 23 00-0601)		
				Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
				01 22 23 00-0613 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	182.11	
				01 22 23 00-0614 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	403.82	
				01 22 23 00-0615 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	870.98	
				01 22 23 00-0616 Generator Sets (01 22 23 00-0601)		
				01 22 23 00-0617 Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0616)		
				Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
				01 22 23 00-0618 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....	51.26	
				For LP Or NG Gas, Add	6.41	
				For >160 To 320 Hours Usage Per Month, Add	25.63	
				01 22 23 00-0619 WK 3.6 KW, 8 HP Gas Powered Generator Set.....	184.78	
				For LP Or NG Gas, Add	23.10	
				01 22 23 00-0620 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	512.60	
				For LP Or NG Gas, Add	64.08	
				01 22 23 00-0621 DAY 5 KW, 11 HP Gas Powered Generator Set.....	72.72	
				For LP Or NG Gas, Add	9.09	
				01 22 23 00-0622 WK 5 KW, 11 HP Gas Powered Generator Set.....	232.46	
				For LP Or NG Gas, Add	29.06	
				01 22 23 00-0623 MO 5 KW, 11 HP Gas Powered Generator Set.....	530.48	
				For LP Or NG Gas, Add	66.31	
				01 22 23 00-0624 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	92.98	
				For LP Or NG Gas, Add	11.62	
				01 22 23 00-0625 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	250.34	
				For LP Or NG Gas, Add	31.29	
				01 22 23 00-0626 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	691.42	
				For LP Or NG Gas, Add	86.43	
				01 22 23 00-0627 DAY 10 KW, 18 HP Gas Powered Generator Set.....	103.71	
				For LP Or NG Gas, Add	12.96	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0628 WK 10 KW, 18 HP Gas Powered Generator Set.....	280.14	
For LP Or NG Gas, Add	35.02	
01 22 23 00-0629 MO 10 KW, 18 HP Gas Powered Generator Set.....	804.67	
For LP Or NG Gas, Add	100.58	
01 22 23 00-0630 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0616)</small>		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-0631 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	213.39	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	106.70	
For >16 To 24 Hours Usage Per Day, Add	213.39	
01 22 23 00-0632 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	557.90	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	278.95	
For >80 Hours Usage Per Week, Add	557.90	
01 22 23 00-0633 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,519.93	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	759.97	
For >320 Hours Usage Per Month, Add	1,519.93	
01 22 23 00-0634 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	316.20	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	158.10	
For >16 To 24 Hours Usage Per Day, Add	316.20	
01 22 23 00-0635 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	938.40	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	469.20	
For >80 Hours Usage Per Week, Add	938.40	
01 22 23 00-0636 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,938.00	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	969.00	
For >320 Hours Usage Per Month, Add	1,938.00	
01 22 23 00-0637 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	346.80	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	173.40	
For >16 To 24 Hours Usage Per Day, Add	346.80	
01 22 23 00-0638 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	969.00	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	484.50	
For >80 Hours Usage Per Week, Add	969.00	
01 22 23 00-0639 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,071.00	
For >320 Hours Usage Per Month, Add	2,142.00	
01 22 23 00-0640 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	372.30	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	186.15	
For >16 To 24 Hours Usage Per Day, Add	372.30	
01 22 23 00-0641 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	510.00	
For >80 Hours Usage Per Week, Add	1,020.00	
01 22 23 00-0642 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,448.00	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,224.00	
For >320 Hours Usage Per Month, Add	2,448.00	
01 22 23 00-0643 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	408.00	
Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	204.00	
For >16 To 24 Hours Usage Per Day, Add	408.00	
01 22 23 00-0644 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,157.70	
Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	578.85	
For >80 Hours Usage Per Week, Add	1,157.70	
01 22 23 00-0645 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,754.00	
Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,377.00	
For >320 Hours Usage Per Month, Add	2,754.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0646 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	459.00	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	229.50	
For >16 To 24 Hours Usage Per Day, Add	459.00	
01 22 23 00-0647 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,224.00	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	612.00	
For >80 Hours Usage Per Week, Add	1,224.00	
01 22 23 00-0648 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,060.00	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,530.00	
For >320 Hours Usage Per Month, Add	3,060.00	
01 22 23 00-0649 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	474.30	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	237.15	
For >16 To 24 Hours Usage Per Day, Add	474.30	
01 22 23 00-0650 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,275.00	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	637.50	
For >80 Hours Usage Per Week, Add	1,275.00	
01 22 23 00-0651 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,468.00	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,734.00	
For >320 Hours Usage Per Month, Add	3,468.00	
01 22 23 00-0652 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	535.50	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	267.75	
For >16 To 24 Hours Usage Per Day, Add	535.50	
01 22 23 00-0653 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,479.00	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	739.50	
For >80 Hours Usage Per Week, Add	1,479.00	
01 22 23 00-0654 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,978.00	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,989.00	
For >320 Hours Usage Per Month, Add	3,978.00	
01 22 23 00-0655 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	561.00	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	280.50	
For >16 To 24 Hours Usage Per Day, Add	561.00	
01 22 23 00-0656 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,555.50	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	777.75	
For >80 Hours Usage Per Week, Add	1,555.50	
01 22 23 00-0657 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,386.00	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,193.00	
For >320 Hours Usage Per Month, Add	4,386.00	
01 22 23 00-0658 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.50	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	293.25	
For >16 To 24 Hours Usage Per Day, Add	586.50	
01 22 23 00-0659 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,683.00	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	841.50	
For >80 Hours Usage Per Week, Add	1,683.00	
01 22 23 00-0660 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,590.00	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,295.00	
For >320 Hours Usage Per Month, Add	4,590.00	
01 22 23 00-0661 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	306.00	
For >16 To 24 Hours Usage Per Day, Add	612.00	
01 22 23 00-0662 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	892.50	
For >80 Hours Usage Per Week, Add	1,785.00	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0663	MO		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,397.00	
			For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0664	DAY		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	306.00	
			For >16 To 24 Hours Usage Per Day, Add	612.00	
01 22 23 00-0665	WK		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	892.50	
			For >80 Hours Usage Per Week, Add	1,785.00	
01 22 23 00-0666	MO		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,397.00	
			For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0667	DAY		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	841.50	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	420.75	
			For >16 To 24 Hours Usage Per Day, Add	841.50	
01 22 23 00-0668	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,091.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,045.50	
			For >80 Hours Usage Per Week, Add	2,091.00	
01 22 23 00-0669	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,120.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,060.00	
			For >320 Hours Usage Per Month, Add	6,120.00	
01 22 23 00-0670	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.50	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	446.25	
			For >16 To 24 Hours Usage Per Day, Add	892.50	
01 22 23 00-0671	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,071.00	
			For >80 Hours Usage Per Week, Add	2,142.00	
01 22 23 00-0672	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,324.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,162.00	
			For >320 Hours Usage Per Month, Add	6,324.00	
01 22 23 00-0673	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	943.50	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	471.75	
			For >16 To 24 Hours Usage Per Day, Add	943.50	
01 22 23 00-0674	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,193.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,096.50	
			For >80 Hours Usage Per Week, Add	2,193.00	
01 22 23 00-0675	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,528.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,264.00	
			For >320 Hours Usage Per Month, Add	6,528.00	
01 22 23 00-0676	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	974.10	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	487.05	
			For >16 To 24 Hours Usage Per Day, Add	974.10	
01 22 23 00-0677	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,346.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,173.00	
			For >80 Hours Usage Per Week, Add	2,346.00	
01 22 23 00-0678	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,936.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,468.00	
			For >320 Hours Usage Per Month, Add	6,936.00	
01 22 23 00-0679	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	510.00	
			For >16 To 24 Hours Usage Per Day, Add	1,020.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0680 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,652.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,326.00	
For >80 Hours Usage Per Week, Add	2,652.00	
01 22 23 00-0681 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,650.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,825.00	
For >320 Hours Usage Per Month, Add	7,650.00	
01 22 23 00-0682 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,639.87	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	819.94	
For >16 To 24 Hours Usage Per Day, Add	1,639.87	
01 22 23 00-0683 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,239.84	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,119.92	
For >80 Hours Usage Per Week, Add	4,239.84	
01 22 23 00-0684 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	11,212.80	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,606.40	
For >320 Hours Usage Per Month, Add	11,212.80	
01 22 23 00-0685 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,102.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,051.20	
For >16 To 24 Hours Usage Per Day, Add	2,102.40	
01 22 23 00-0686 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,466.24	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,733.12	
For >80 Hours Usage Per Week, Add	5,466.24	
01 22 23 00-0687 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	12,614.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,307.20	
For >320 Hours Usage Per Month, Add	12,614.40	
01 22 23 00-0688 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,599.97	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,299.99	
For >16 To 24 Hours Usage Per Day, Add	2,599.97	
01 22 23 00-0689 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,867.84	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,433.92	
For >80 Hours Usage Per Week, Add	6,867.84	
01 22 23 00-0690 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,819.20	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	8,409.60	
For >320 Hours Usage Per Month, Add	16,819.20	
01 22 23 00-0691 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,810.21	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,405.11	
For >16 To 24 Hours Usage Per Day, Add	2,810.21	
01 22 23 00-0692 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,475.39	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,237.70	
For >80 Hours Usage Per Week, Add	6,475.39	
01 22 23 00-0693 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	19,426.18	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,713.09	
For >320 Hours Usage Per Month, Add	19,426.18	
01 22 23 00-0694 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	818.07	
01 22 23 00-0695 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,330.15	
01 22 23 00-0696 Cabling For Generator Sets (01 22 23 00-0616)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0697 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set	22.44	
01 22 23 00-0698 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set	39.27	
01 22 23 00-0699 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set	117.81	
01 22 23 00-0700 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.22	
01 22 23 00-0701 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	32.64	
01 22 23 00-0702 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	90.78	

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01 22 23 00-0703	Resistive Loadbanks For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-0704 DAY	100 KW A/C Resistive Loadbank	280.50
01 22 23 00-0705 WK	100 KW A/C Resistive Loadbank	533.50
01 22 23 00-0706 MO	100 KW A/C Resistive Loadbank	1,457.50
01 22 23 00-0707 DAY	650 KW A/C Resistive Loadbank	689.82
01 22 23 00-0708 WK	650 KW A/C Resistive Loadbank	1,844.74
01 22 23 00-0709 MO	650 KW A/C Resistive Loadbank	4,703.29
01 22 23 00-0710	Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0711 DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	55.08
01 22 23 00-0712 WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	142.80
01 22 23 00-0713 MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	402.90
01 22 23 00-0714	Portable Distribution Panels For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0715 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	122.40
01 22 23 00-0716 WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	331.50
01 22 23 00-0717 MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	928.20
01 22 23 00-0718 DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	99.96
01 22 23 00-0719 WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	260.10
01 22 23 00-0720 MO	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	739.50
01 22 23 00-0721 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	127.50
01 22 23 00-0722 WK	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	321.30
01 22 23 00-0723 MO	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	872.10
01 22 23 00-0724	Fuel Reimbursement For Generators (01 22 23 00-0616)	
01 22 23 00-0725 EA	Fuel Reimbursement For Generators	1.00
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0726	General Equipment (01 22 23)	
01 22 23 00-0727	Jacks And Bracing (01 22 23 00-0726)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0728	Manual Hydraulic Jacks (01 22 23 00-0727)	
01 22 23 00-0729 DAY	12 Ton Manual Hydraulic Bottle Jack	1.67
01 22 23 00-0730 WK	12 Ton Manual Hydraulic Bottle Jack	7.93
01 22 23 00-0731 MO	12 Ton Manual Hydraulic Bottle Jack	28.50
01 22 23 00-0732 DAY	20 Ton Manual Hydraulic Bottle Jack	2.92
01 22 23 00-0733 WK	20 Ton Manual Hydraulic Bottle Jack	9.18
01 22 23 00-0734 MO	20 Ton Manual Hydraulic Bottle Jack	34.76
01 22 23 00-0735 DAY	50 Ton Manual Hydraulic Bottle Jack	10.43
01 22 23 00-0736 WK	50 Ton Manual Hydraulic Bottle Jack	40.49
01 22 23 00-0737 MO	50 Ton Manual Hydraulic Bottle Jack	145.66
01 22 23 00-0738 DAY	100 Ton Manual Hydraulic Bottle Jack	14.61
01 22 23 00-0739 WK	100 Ton Manual Hydraulic Bottle Jack	58.43
01 22 23 00-0740 MO	100 Ton Manual Hydraulic Bottle Jack	210.46
01 22 23 00-0741	Manual Screw Jacks (01 22 23 00-0727)	
01 22 23 00-0742 DAY	10 To 20 Ton Manual Screw Jack	22.00
01 22 23 00-0743 WK	10 To 20 Ton Manual Screw Jack	59.24
01 22 23 00-0744 MO	10 To 20 Ton Manual Screw Jack	164.17
01 22 23 00-0745	Pressure Washers (01 22 23 00-0726)	
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0746 DAY	2,000 PSI Pressure Washer With Full-Time Operator	796.62
<i>For Equipment Without Operator, Deduct</i>		
		-626.39
01 22 23 00-0747 WK	2,000 PSI Pressure Washer With Full-Time Operator	3,564.06
<i>For Equipment Without Operator, Deduct</i>		
		-3,131.94
01 22 23 00-0748 MO	2,000 PSI Pressure Washer With Full-Time Operator	14,671.70
<i>For Equipment Without Operator, Deduct</i>		
		-13,571.76
01 22 23 00-0749 DAY	2,500 PSI Pressure Washer With Full-Time Operator	748.71
<i>For Equipment Without Operator, Deduct</i>		
		-626.39
01 22 23 00-0750 WK	2,500 PSI Pressure Washer With Full-Time Operator	3,442.45
<i>For Equipment Without Operator, Deduct</i>		
		-3,131.94
01 22 23 00-0751 MO	2,500 PSI Pressure Washer With Full-Time Operator	14,362.16
<i>For Equipment Without Operator, Deduct</i>		
		-13,571.76
01 22 23 00-0752 DAY	3,000 PSI Pressure Washer With Full-Time Operator	796.62
<i>For Equipment Without Operator, Deduct</i>		
		-626.39



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01 22 23 00-0753 WK 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,564.06 -3,131.94	
01 22 23 00-0754 MO 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,671.70 -13,571.76	
01 22 23 00-0755 DAY 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	758.12 -626.39	
01 22 23 00-0756 WK 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,470.68 -3,131.94	
01 22 23 00-0757 MO 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,437.43 -13,571.76	
01 22 23 00-0758 DAY 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	862.09 -626.39	
01 22 23 00-0759 WK 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,773.57 -3,131.94	
01 22 23 00-0760 MO 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,365.71 -13,571.76	
01 22 23 00-0761 DAY 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	814.58 -626.39	
01 22 23 00-0762 WK 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,640.05 -3,131.94	
01 22 23 00-0763 MO 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,002.00 -13,571.76	
01 22 23 00-0764 Confined Space Entry Equipment (01 22 23 00-0726) Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0765 DAY Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	47.47	
01 22 23 00-0766 WK Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	142.42	
01 22 23 00-0767 MO Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	424.99	
01 22 23 00-0768 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	51.47	
01 22 23 00-0769 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	154.42	
01 22 23 00-0770 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	463.26	
01 22 23 00-0771 DAY Confined Space Air Monitor Personnel Note: Per person day.	756.53	
01 22 23 00-0772 Space Heaters (01 22 23 00-0726) Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.		
01 22 23 00-0773 DAY 150,000 BTU/Hour Space Heater	70.52	
01 22 23 00-0774 WK 150,000 BTU/Hour Space Heater	202.74	
01 22 23 00-0775 MO 150,000 BTU/Hour Space Heater	572.98	
01 22 23 00-0776 DAY 500,000 BTU/Hour Space Heater	149.86	
01 22 23 00-0777 WK 500,000 BTU/Hour Space Heater	370.23	
01 22 23 00-0778 MO 500,000 BTU/Hour Space Heater	936.15	
01 22 23 00-0779 Mowers (01 22 23 00-0726) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0780 DAY 21" Walk Behind Lawn Mower	75.28	
01 22 23 00-0781 WK 21" Walk Behind Lawn Mower	216.42	
01 22 23 00-0782 MO 21" Walk Behind Lawn Mower	442.25	
01 22 23 00-0783 DAY 32" Walk Behind Lawn Mower	94.10	
01 22 23 00-0784 WK 32" Walk Behind Lawn Mower	225.83	
01 22 23 00-0785 MO 32" Walk Behind Lawn Mower	470.48	
01 22 23 00-0786 DAY 36" To 48" Walk Behind Deck Mower	169.37	
01 22 23 00-0787 WK 36" To 48" Walk Behind Deck Mower	470.48	
01 22 23 00-0788 MO 36" To 48" Walk Behind Deck Mower	1,364.38	
01 22 23 00-0789 DAY 61" To 72" Walk Behind Deck Mower	169.37	
01 22 23 00-0790 WK 61" To 72" Walk Behind Deck Mower	470.48	
01 22 23 00-0791 MO 61" To 72" Walk Behind Deck Mower	1,364.38	
01 22 23 00-0792 Material Handling Equipment (01 22 23)		
01 22 23 00-0793 Truck Mounted Hydraulic Cranes (01 22 23 00-0792) Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0794 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,238.04 -820.15	
01 22 23 00-0795 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,366.70 -4,100.73	
01 22 23 00-0796 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,580.03 -17,769.82	
01 22 23 00-0797 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,348.66 -820.15	
01 22 23 00-0798 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,695.49 -4,100.73	
01 22 23 00-0799 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,563.31 -17,769.82	

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01 22 23 00-0800	DAY		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,459.28 -820.15	
01 22 23 00-0801	WK		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,024.27 -4,100.73	
01 22 23 00-0802	MO		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,546.59 -17,769.82	
01 22 23 00-0803	DAY		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,606.77 -820.15	
01 22 23 00-0804	WK		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,466.75 -4,100.73	
01 22 23 00-0805	MO		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,867.87 -17,769.82	
01 22 23 00-0806	DAY		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,741.97 -820.15	
01 22 23 00-0807	WK		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,382.43 -4,100.73	
01 22 23 00-0808	MO		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,612.45 -17,769.82	
01 22 23 00-0809	DAY		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,061.54 -820.15	
01 22 23 00-0810	WK		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,525.49 -4,100.73	
01 22 23 00-0811	MO		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,044.10 -17,769.82	
01 22 23 00-0812	DAY		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,264.34 -820.15	
01 22 23 00-0813	WK		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,238.37 -4,100.73	
01 22 23 00-0814	MO		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,187.65 -17,769.82	
01 22 23 00-0815	DAY		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,424.13 -820.15	
01 22 23 00-0816	WK		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,816.05 -4,100.73	
01 22 23 00-0817	MO		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,918.22 -17,769.82	
01 22 23 00-0818	DAY		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,583.91 -820.15	
01 22 23 00-0819	WK		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,393.72 -4,100.73	
01 22 23 00-0820	MO		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,648.80 -17,769.82	
01 22 23 00-0821	DAY		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,688.38 -820.15	
01 22 23 00-0822	WK		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,750.16 -4,100.73	
01 22 23 00-0823	MO		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,730.40 -17,769.82	
01 22 23 00-0824	DAY		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,829.73 -820.15	
01 22 23 00-0825	WK		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,278.67 -4,100.73	
01 22 23 00-0826	MO		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,303.65 -17,769.82	
01 22 23 00-0827	DAY		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,284.50 -820.15 -985.74	
01 22 23 00-0828	WK		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,725.94 -4,100.73	
01 22 23 00-0829	MO		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,645.45 -17,769.82	
01 22 23 00-0830	DAY		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,597.92 -820.15 -1,111.11	
01 22 23 00-0831	WK		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,822.91 -4,100.73	
01 22 23 00-0832	MO		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	46,936.36 -17,769.82	
01 22 23 00-0833	DAY		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,163.30 -820.15 -1,337.26	
01 22 23 00-0834	WK		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,801.76 -4,100.73	
01 22 23 00-0835	MO		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	52,872.92 -17,769.82	
01 22 23 00-0836	DAY		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,556.61 -820.15 -1,494.58	
01 22 23 00-0837	WK		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,178.35 -4,100.73	
01 22 23 00-0838	MO		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	57,002.69 -17,769.82	



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01 22 23 00-0839	Cable Controlled Lattice Boom, Mechanical Cranes <small>(01 22 23 00-0792)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.
01 22 23 00-0840	DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....2,295.07 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0841	WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator 9,361.28 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0842	MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....33,551.46 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0843	DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....3,431.99 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0844	WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....11,254.09 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0845	MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....39,229.91 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0846	DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator 3,616.35 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0847	WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator 12,599.96 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0848	MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....43,266.27 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0849	DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator 3,985.08 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0850	WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....13,945.82 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0851	MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....47,297.72 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0852	DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....4,160.23 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0853	WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....15,291.69 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0854	MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....51,339.00 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0855	DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....4,335.38 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0856	WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....16,637.55 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0857	MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....55,380.28 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0858	DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....4,913.05 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0859	WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....18,708.58 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0860	MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....61,584.78 <i>For Equipment Without Operator, Deduct</i> -17,769.82
01 22 23 00-0861	DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....8,465.15 <i>For Equipment Without Operator, Deduct</i> -820.15
01 22 23 00-0862	WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....31,368.31 <i>For Equipment Without Operator, Deduct</i> -4,100.73
01 22 23 00-0863	MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....99,578.72 <i>For Equipment Without Operator, Deduct</i> -17,769.82

01 22 23 00-0864	Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts <small>(01 22 23 00-0792)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.
01 22 23 00-0865	DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 1,345.80 <i>For Equipment Without Operator, Deduct</i> -756.53
01 22 23 00-0866	WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....5,224.78 <i>For Equipment Without Operator, Deduct</i> -3,782.63
01 22 23 00-0867	MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....19,492.81 <i>For Equipment Without Operator, Deduct</i> -16,391.41
01 22 23 00-0868	DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....1,407.82 <i>For Equipment Without Operator, Deduct</i> -756.53
01 22 23 00-0869	WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....5,364.34 <i>For Equipment Without Operator, Deduct</i> -3,782.63
01 22 23 00-0870	MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....19,802.95 <i>For Equipment Without Operator, Deduct</i> -16,391.41
01 22 23 00-0871	DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....1,392.32 <i>For Equipment Without Operator, Deduct</i> -756.53
01 22 23 00-0872	WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....5,434.13 <i>For Equipment Without Operator, Deduct</i> -3,782.63
01 22 23 00-0873	MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....20,268.16 <i>For Equipment Without Operator, Deduct</i> -16,391.41
01 22 23 00-0874	DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....1,570.65 <i>For Equipment Without Operator, Deduct</i> -756.53
01 22 23 00-0875	WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator5,899.34 <i>For Equipment Without Operator, Deduct</i> -3,782.63

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0876 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,353.65 -16,391.41	
01 22 23 00-0877 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0792) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0878 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,139.55 -756.53 76.60	
01 22 23 00-0879 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,828.58 -3,782.63 209.19	
01 22 23 00-0880 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,785.30 -16,391.41 478.78	
01 22 23 00-0881 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,159.71 -756.53 80.64	
01 22 23 00-0882 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,883.63 -3,782.63 220.20	
01 22 23 00-0883 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,911.30 -16,391.41 503.98	
01 22 23 00-0884 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,268.26 -756.53 102.35	
01 22 23 00-0885 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,186.01 -3,782.63 280.68	
01 22 23 00-0886 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,609.11 -16,391.41 643.54	
01 22 23 00-0887 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,328.04 -756.53 114.30	
01 22 23 00-0888 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,160.12 -3,782.63 275.50	
01 22 23 00-0889 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,820.47 -16,391.41 685.81	
01 22 23 00-0890 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0792) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0891 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,082.18 -756.53 65.13	
01 22 23 00-0892 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,526.97 -3,782.63 148.87	
01 22 23 00-0893 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,174.71 -16,391.41 356.66	
01 22 23 00-0894 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,089.93 -756.53 66.68	
01 22 23 00-0895 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,550.23 -3,782.63 153.52	
01 22 23 00-0896 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,228.99 -16,391.41 367.52	
01 22 23 00-0897 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,252.75 -756.53 99.24	
01 22 23 00-0898 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,906.89 -3,782.63 224.85	
01 22 23 00-0899 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,105.13 -16,391.41 542.74	
01 22 23 00-0900 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,268.26 -756.53 102.35	
01 22 23 00-0901 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,038.70 -3,782.63 251.21	
01 22 23 00-0902 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,570.35 -16,391.41 635.79	
01 22 23 00-0903 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,407.82 -756.53 130.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0904 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add</i>	5,263.55 -3,782.63 296.18	
01 22 23 00-0905 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add</i>	19,958.02 -16,391.41 713.32	
01 22 23 00-0906 Chain Hoists <small>(01 22 23 00-0792)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0907 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0908 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0909 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0910 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0911 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0912 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0913 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0914 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0915 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0916 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0917 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0918 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0919 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0920 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0921 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0922 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	
01 22 23 00-0923 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0924 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0925 Roof Swing Hoist <small>(01 22 23 00-0792)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0926 DAY Up To 400#, Manual Swing Roof Hoist.....	80.46	
01 22 23 00-0927 WK Up To 400#, Manual Swing Roof Hoist.....	281.63	
01 22 23 00-0928 MO Up To 400#, Manual Swing Roof Hoist.....	965.58	
01 22 23 00-0929 Pumping Equipment <small>(01 22 23)</small>		
01 22 23 00-0930 Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0954 for larger diameter pumps.		
01 22 23 00-0931 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	66.07	
01 22 23 00-0932 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	148.65	
01 22 23 00-0933 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	396.41	
01 22 23 00-0934 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	79.28	
01 22 23 00-0935 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	178.38	
01 22 23 00-0936 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	475.69	
01 22 23 00-0937 Gas Powered Portable Diaphragm Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0938 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	75.98	
01 22 23 00-0939 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	214.72	
01 22 23 00-0940 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	545.06	
01 22 23 00-0941 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	92.50	
01 22 23 00-0942 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	247.76	
01 22 23 00-0943 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	701.97	
01 22 23 00-0944 Gas Powered Portable Trash Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0945 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	95.80	
01 22 23 00-0946 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	198.20	
01 22 23 00-0947 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	594.61	
01 22 23 00-0948 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	95.80	
01 22 23 00-0949 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	256.01	
01 22 23 00-0950 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	701.97	
01 22 23 00-0951 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	151.96	
01 22 23 00-0952 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	429.44	
01 22 23 00-0953 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,247.03	
01 22 23 00-0954 Diesel Powered Portable Trash Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0955 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	297.31	
01 22 23 00-0956 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	809.33	
01 22 23 00-0957 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,526.38	
01 22 23 00-0958 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	454.22	
01 22 23 00-0959 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,189.22	
01 22 23 00-0960 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,163.01	
01 22 23 00-0961 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	617.74	

01	01	General Requirements
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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 22 23 00-0962	WK	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,653.35		
01 22 23 00-0963	MO	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,423.25		
01 22 23 00-0964	DAY	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	799.42		
01 22 23 00-0965	WK	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,041.50		
01 22 23 00-0966	MO	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,995.67		
01 22 23 00-0967 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0929)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0968	DAY	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	424.49		
01 22 23 00-0969	WK	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	966.24		
01 22 23 00-0970	MO	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,012.70		
01 22 23 00-0971	DAY	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	520.29		
01 22 23 00-0972	WK	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,296.58		
01 22 23 00-0973	MO	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,526.38		
01 22 23 00-0974	DAY	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	627.65		
01 22 23 00-0975	WK	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,856.51		
01 22 23 00-0976	MO	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,178.08		
01 22 23 00-0977	DAY	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	944.77		
01 22 23 00-0978	WK	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,413.13		
01 22 23 00-0979	MO	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,085.79		
01 22 23 00-0980 3 Phase Electric Submersible Pumps (01 22 23 00-0929)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0981	DAY	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	165.17		
01 22 23 00-0982	WK	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	412.92		
01 22 23 00-0983	MO	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,238.78		
01 22 23 00-0984	DAY	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	218.02		
01 22 23 00-0985	WK	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	545.06		
01 22 23 00-0986	MO	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,635.18		
01 22 23 00-0987 Suction Hose With Couplings (01 22 23 00-0929)					
Note: Includes delivery, set-up, and removal.					
01 22 23 00-0988	DAY	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	6.00		
01 22 23 00-0989	WK	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	15.00		
01 22 23 00-0990	MO	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	46.00		
01 22 23 00-0991	DAY	3" Inside Diameter, 20' Length, Suction Hose With Couplings	16.00		
01 22 23 00-0992	WK	3" Inside Diameter, 20' Length, Suction Hose With Couplings	41.00		
01 22 23 00-0993	MO	3" Inside Diameter, 20' Length, Suction Hose With Couplings	125.00		
01 22 23 00-0994	DAY	4" Inside Diameter, 20' Length, Suction Hose With Couplings	24.00		
01 22 23 00-0995	WK	4" Inside Diameter, 20' Length, Suction Hose With Couplings	61.00		
01 22 23 00-0996	MO	4" Inside Diameter, 20' Length, Suction Hose With Couplings	185.00		
01 22 23 00-0997	DAY	6" Inside Diameter, 20' Length, Suction Hose With Couplings	30.00		
01 22 23 00-0998	WK	6" Inside Diameter, 20' Length, Suction Hose With Couplings	75.00		
01 22 23 00-0999	MO	6" Inside Diameter, 20' Length, Suction Hose With Couplings	220.00		
01 22 23 00-1000	DAY	10" Inside Diameter, 20' Length, Suction Hose With Couplings	70.00		
01 22 23 00-1001	WK	10" Inside Diameter, 20' Length, Suction Hose With Couplings	180.00		
01 22 23 00-1002	MO	10" Inside Diameter, 20' Length, Suction Hose With Couplings	530.00		
01 22 23 00-1003	DAY	12" Inside Diameter, 20' Length, Suction Hose With Couplings	94.00		
01 22 23 00-1004	WK	12" Inside Diameter, 20' Length, Suction Hose With Couplings	205.00		
01 22 23 00-1005	MO	12" Inside Diameter, 20' Length, Suction Hose With Couplings	615.00		
01 22 23 00-1006 Discharge Hose With Couplings (01 22 23 00-0929)					
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1007	DAY	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.00		
01 22 23 00-1008	WK	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.00		
01 22 23 00-1009	MO	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	46.00		
01 22 23 00-1010	DAY	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.00		
01 22 23 00-1011	WK	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	17.00		
01 22 23 00-1012	MO	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	53.00		
01 22 23 00-1013	DAY	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	8.00		
01 22 23 00-1014	WK	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.00		
01 22 23 00-1015	MO	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	61.00		
01 22 23 00-1016	DAY	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	21.00		
01 22 23 00-1017	WK	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	54.00		
01 22 23 00-1018	MO	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	155.00		
01 22 23 00-1019	DAY	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	26.00		
01 22 23 00-1020	WK	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	71.00		
01 22 23 00-1021	MO	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	195.00		
01 22 23 00-1022	DAY	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	20.00		
01 22 23 00-1023	WK	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	50.00		
01 22 23 00-1024	MO	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	150.00		
01 22 23 00-1025	DAY	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	51.00		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 22 23 00-1026	WK		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	130.00	
	01 22 23 00-1027	MO		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	385.00	
01 22 23 00-1028	Hydraulic Submersible Pumps (01 22 23 00-0929)					
	Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1029	Hydraulic Submersible Pumps (01 22 23 00-1028)					
	Note: Includes delivery, set-up, and removal. Excludes operator.					
	01 22 23 00-1030	DAY		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	109.01	
	01 22 23 00-1031	WK		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	292.35	
	01 22 23 00-1032	MO		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	817.59	
	01 22 23 00-1033	DAY		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	138.74	
	01 22 23 00-1034	WK		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	356.77	
	01 22 23 00-1035	MO		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,090.12	
01 22 23 00-1036	Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1028)					
	Note: Includes delivery, set-up, and removal. Excludes operator.					
	01 22 23 00-1037	DAY		100 HP, Hydraulic Submersible Pump Diesel Power Pack	251.88	
	01 22 23 00-1038	WK		100 HP, Hydraulic Submersible Pump Diesel Power Pack	751.52	
	01 22 23 00-1039	MO		100 HP, Hydraulic Submersible Pump Diesel Power Pack	1,982.04	
01 22 23 00-1040	HDPE Pipe With Couplings (01 22 23 00-0929)					
	Note: Includes delivery, set-up, and removal.					
	01 22 23 00-1041	DAY		4" x 20' HDPE Pipe With Couplings	14.75	
	01 22 23 00-1042	WK		4" x 20' HDPE Pipe With Couplings	35.40	
	01 22 23 00-1043	MO		4" x 20' HDPE Pipe With Couplings	109.15	
	01 22 23 00-1044	DAY		6" x 20' HDPE Pipe With Couplings	23.60	
	01 22 23 00-1045	WK		6" x 20' HDPE Pipe With Couplings	59.00	
	01 22 23 00-1046	MO		6" x 20' HDPE Pipe With Couplings	179.95	
	01 22 23 00-1047	DAY		8" x 20' HDPE Pipe With Couplings	38.35	
	01 22 23 00-1048	WK		8" x 20' HDPE Pipe With Couplings	100.30	
	01 22 23 00-1049	MO		8" x 20' HDPE Pipe With Couplings	297.95	
	01 22 23 00-1050	DAY		10" x 20' HDPE Pipe With Couplings	47.20	
	01 22 23 00-1051	WK		10" x 20' HDPE Pipe With Couplings	120.95	
	01 22 23 00-1052	MO		10" x 20' HDPE Pipe With Couplings	368.75	
	01 22 23 00-1053	DAY		12" x 10' HDPE Pipe With Couplings	35.40	
	01 22 23 00-1054	WK		12" x 10' HDPE Pipe With Couplings	97.35	
	01 22 23 00-1055	MO		12" x 10' HDPE Pipe With Couplings	295.00	
	01 22 23 00-1056	DAY		4" Elbow For HDPE Pipe, Quick Connect	35.40	
	01 22 23 00-1057	WK		4" Elbow For HDPE Pipe, Quick Connect	91.45	
	01 22 23 00-1058	MO		4" Elbow For HDPE Pipe, Quick Connect	271.40	
	01 22 23 00-1059	DAY		6" Elbow For HDPE Pipe, Quick Connect	41.30	
	01 22 23 00-1060	WK		6" Elbow For HDPE Pipe, Quick Connect	106.20	
	01 22 23 00-1061	MO		6" Elbow For HDPE Pipe, Quick Connect	324.50	
	01 22 23 00-1062	DAY		8" Elbow For HDPE Pipe, Quick Connect	47.20	
	01 22 23 00-1063	WK		8" Elbow For HDPE Pipe, Quick Connect	120.95	
	01 22 23 00-1064	MO		8" Elbow For HDPE Pipe, Quick Connect	368.75	
	01 22 23 00-1065	DAY		10" Elbow For HDPE Pipe, Quick Connect	59.00	
	01 22 23 00-1066	WK		10" Elbow For HDPE Pipe, Quick Connect	150.45	
	01 22 23 00-1067	MO		10" Elbow For HDPE Pipe, Quick Connect	457.25	
	01 22 23 00-1068	DAY		12" Elbow For HDPE Pipe, Quick Connect	59.00	
	01 22 23 00-1069	WK		12" Elbow For HDPE Pipe, Quick Connect	150.45	
	01 22 23 00-1070	MO		12" Elbow For HDPE Pipe, Quick Connect	457.25	
	01 22 23 00-1071	DAY		4" Tee For HDPE Pipe, Quick Connect	35.40	
	01 22 23 00-1072	WK		4" Tee For HDPE Pipe, Quick Connect	91.45	
	01 22 23 00-1073	MO		4" Tee For HDPE Pipe, Quick Connect	271.40	
	01 22 23 00-1074	DAY		6" Tee For HDPE Pipe, Quick Connect	47.20	
	01 22 23 00-1075	WK		6" Tee For HDPE Pipe, Quick Connect	120.95	
	01 22 23 00-1076	MO		6" Tee For HDPE Pipe, Quick Connect	368.75	
	01 22 23 00-1077	DAY		8" Tee For HDPE Pipe, Quick Connect	59.00	
	01 22 23 00-1078	WK		8" Tee For HDPE Pipe, Quick Connect	150.45	
	01 22 23 00-1079	MO		8" Tee For HDPE Pipe, Quick Connect	457.25	
	01 22 23 00-1080	DAY		10" Tee For HDPE Pipe, Quick Connect	70.80	
	01 22 23 00-1081	WK		10" Tee For HDPE Pipe, Quick Connect	179.95	
	01 22 23 00-1082	MO		10" Tee For HDPE Pipe, Quick Connect	545.75	
	01 22 23 00-1083	DAY		12" Tee For HDPE Pipe, Quick Connect	70.80	
	01 22 23 00-1084	WK		12" Tee For HDPE Pipe, Quick Connect	179.95	
	01 22 23 00-1085	MO		12" Tee For HDPE Pipe, Quick Connect	545.75	
	01 22 23 00-1086	DAY		4" Cap For HDPE Pipe, Quick Connect	5.90	
	01 22 23 00-1087	WK		4" Cap For HDPE Pipe, Quick Connect	17.70	
	01 22 23 00-1088	MO		4" Cap For HDPE Pipe, Quick Connect	53.10	
	01 22 23 00-1089	DAY		6" Cap For HDPE Pipe, Quick Connect	5.90	
	01 22 23 00-1090	WK		6" Cap For HDPE Pipe, Quick Connect	17.70	
	01 22 23 00-1091	MO		6" Cap For HDPE Pipe, Quick Connect	53.10	
	01 22 23 00-1092	DAY		8" Cap For HDPE Pipe, Quick Connect	5.90	
	01 22 23 00-1093	WK		8" Cap For HDPE Pipe, Quick Connect	17.70	
	01 22 23 00-1094	MO		8" Cap For HDPE Pipe, Quick Connect	53.10	
	01 22 23 00-1095	DAY		10" Cap For HDPE Pipe, Quick Connect	5.90	
	01 22 23 00-1096	WK		10" Cap For HDPE Pipe, Quick Connect	17.70	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1097 MO 10" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1098 DAY 12" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1099 WK 12" Cap For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1100 MO 12" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1101 DAY 4" Wye For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1102 WK 4" Wye For HDPE Pipe, Quick Connect	44.25	
01 22 23 00-1103 MO 4" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1104 DAY 6" Wye For HDPE Pipe, Quick Connect	20.65	
01 22 23 00-1105 WK 6" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1106 MO 6" Wye For HDPE Pipe, Quick Connect	162.25	
01 22 23 00-1107 DAY 8" Wye For HDPE Pipe, Quick Connect	35.40	
01 22 23 00-1108 WK 8" Wye For HDPE Pipe, Quick Connect	91.45	
01 22 23 00-1109 MO 8" Wye For HDPE Pipe, Quick Connect	271.40	
01 22 23 00-1110 DAY 10" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1111 WK 10" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1112 MO 10" Wye For HDPE Pipe, Quick Connect	413.00	
01 22 23 00-1113 DAY 12" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1114 WK 12" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1115 MO 12" Wye For HDPE Pipe, Quick Connect	413.00	
01 22 23 00-1116 Temporary Building Services (01 22 23)		
01 22 23 00-1117 Boilers (01 22 23 00-1116)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1118 Electric Boilers (01 22 23 00-1117)		
01 22 23 00-1119 MO 40 MBH, 12 KW Electric Boiler Rental	2,360.98	
01 22 23 00-1120 MO 60 MBH, 20 KW Electric Boiler Rental	2,575.65	
01 22 23 00-1121 MO 95 MBH, 30 KW Electric Boiler Rental	2,682.98	
01 22 23 00-1122 MO 135 MBH, 40 KW Electric Boiler Rental	3,004.88	
01 22 23 00-1123 MO 165 MBH, 50 KW Electric Boiler Rental	4,185.37	
01 22 23 00-1124 MO 215 MBH, 60 KW Electric Boiler Rental	4,829.29	
01 22 23 00-1125 MO 365 MBH, 100 KW Electric Boiler Rental	6,331.78	
01 22 23 00-1126 MO 510 MBH, 150 KW Electric Boiler Rental	7,726.93	
01 22 23 00-1127 Oil/Gas Fired Boilers (01 22 23 00-1117)		
01 22 23 00-1128 MO Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental	2,080.00	
For >3 Months Rental, Deduct	-312.00	
01 22 23 00-1129 MO >100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental	2,704.00	
For >3 Months Rental, Deduct	-405.60	
01 22 23 00-1130 MO >250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental	4,368.00	
For >3 Months Rental, Deduct	-655.20	
01 22 23 00-1131 MO >500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental	6,032.00	
For >3 Months Rental, Deduct	-904.80	
01 22 23 00-1132 Oil Fired Boilers (01 22 23 00-1117)		
01 22 23 00-1133 MO 250 HP Oil Fired Boiler Rental	6,630.82	
01 22 23 00-1134 MO 350 HP Oil Fired Boiler Rental	8,841.10	
01 22 23 00-1135 MO 500 HP Oil Fired Boiler Rental	11,051.37	
01 22 23 00-1136 MO 600 HP Oil Fired Boiler Rental	12,156.51	
01 22 23 00-1137 Boilers Setup (01 22 23 00-1117)		
01 22 23 00-1138 EA Setup Rental Boiler	6,232.98	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1139 Chillers (01 22 23 00-1116)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1140 Air Cooled Chillers (01 22 23 00-1139)		
01 22 23 00-1141 MO 25 Ton Air Cooled Chiller Rental	3,152.40	
For >3 To 6 Month Rental, Deduct	-472.86	
For >6 Month Rental, Deduct	-788.10	
01 22 23 00-1142 MO 40 Ton Air Cooled Chiller Rental	5,043.85	
For >3 To 6 Month Rental, Deduct	-756.58	
For >6 Month Rental, Deduct	-1,260.96	
01 22 23 00-1143 MO 60 Ton Air Cooled Chiller Rental	6,169.20	
For >3 To 6 Month Rental, Deduct	-925.38	
For >6 Month Rental, Deduct	-1,542.30	
01 22 23 00-1144 MO 80 Ton Air Cooled Chiller Rental	7,294.55	
For >3 To 6 Month Rental, Deduct	-1,094.18	
For >6 Month Rental, Deduct	-1,823.64	
01 22 23 00-1145 MO 100 Ton Air Cooled Chiller Rental	8,419.90	
For >3 To 6 Month Rental, Deduct	-1,262.99	
For >6 Month Rental, Deduct	-2,104.98	
01 22 23 00-1146 MO 125 Ton Air Cooled Chiller Rental	9,754.62	
For >3 To 6 Month Rental, Deduct	-1,463.19	
For >6 Month Rental, Deduct	-2,438.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1147 MO 155 Ton Air Cooled Chiller Rental	11,800.70	
<i>For >3 To 6 Month Rental, Deduct</i>	-1,770.11	
<i>For >6 Month Rental, Deduct</i>	-2,950.18	
01 22 23 00-1148 MO 170 Ton Air Cooled Chiller Rental	12,619.14	
<i>For >3 To 6 Month Rental, Deduct</i>	-1,892.87	
<i>For >6 Month Rental, Deduct</i>	-3,154.79	
01 22 23 00-1149 MO 200 Ton Air Cooled Chiller Rental	14,496.31	
<i>For >3 To 6 Month Rental, Deduct</i>	-2,174.45	
<i>For >6 Month Rental, Deduct</i>	-3,624.08	
01 22 23 00-1150 MO 250 Ton Air Cooled Chiller Rental	17,249.02	
<i>For >3 To 6 Month Rental, Deduct</i>	-2,587.35	
<i>For >6 Month Rental, Deduct</i>	-4,312.26	
01 22 23 00-1151 MO 300 Ton Air Cooled Chiller Rental	20,127.82	
Note: Includes trailer.		
<i>For >3 To 6 Month Rental, Deduct</i>	-3,019.17	
<i>For >6 Month Rental, Deduct</i>	-5,031.96	
01 22 23 00-1152 MO 400 Ton Air Cooled Chiller Rental	26,551.59	
Note: Includes trailer, pump and 200' of 6" hose.		
<i>For >3 To 6 Month Rental, Deduct</i>	-3,982.74	
<i>For >6 Month Rental, Deduct</i>	-6,637.90	
01 22 23 00-1153 MO 500 Ton Air Cooled Chiller Rental	32,865.91	
Note: Includes trailer, pump and 200' of 6" hose.		
<i>For >3 To 6 Month Rental, Deduct</i>	-4,929.89	
<i>For >6 Month Rental, Deduct</i>	-8,216.48	
01 22 23 00-1154 EA Setup Air Cooled Chiller Rental Unit.....	4,332.68	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-1155 Chiller Rental Accessories <small>(01 22 23 00-1139)</small>		
01 22 23 00-1156 MO 4" x 25' Flexible Water Hose For Chiller Rental	56.17	
01 22 23 00-1157 MO 6" x 25' Flexible Water Hose For Chiller Rental	70.22	
01 22 23 00-1158 Cooling Tower <small>(01 22 23 00-1116)</small>		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1159 MO 100 Ton Cooling Tower Rental	2,892.86	
<i>For >3 To 6 Months Rental, Deduct</i>	-433.93	
<i>For >6 Months Rental, Deduct</i>	-723.22	
01 22 23 00-1160 MO 200 Ton Cooling Tower Rental	5,266.12	
<i>For >3 To 6 Months Rental, Deduct</i>	-789.92	
<i>For >6 Months Rental, Deduct</i>	-1,316.53	
01 22 23 00-1161 MO 250 Ton Cooling Tower Rental	5,963.64	
<i>For >3 To 6 Months Rental, Deduct</i>	-894.55	
<i>For >6 Months Rental, Deduct</i>	-1,490.91	
01 22 23 00-1162 MO 300 Ton Cooling Tower Rental	6,740.64	
<i>For >3 To 6 Months Rental, Deduct</i>	-1,011.10	
<i>For >6 Months Rental, Deduct</i>	-1,685.16	
01 22 23 00-1163 MO 400 Ton Cooling Tower Rental	8,425.80	
<i>For >3 To 6 Months Rental, Deduct</i>	-1,263.87	
<i>For >6 Months Rental, Deduct</i>	-2,106.45	
01 22 23 00-1164 MO 500 Ton Cooling Tower Rental	9,851.21	
<i>For >3 To 6 Months Rental, Deduct</i>	-1,477.68	
<i>For >6 Months Rental, Deduct</i>	-2,462.80	
01 22 23 00-1165 MO Setup Rental Cooling Tower	4,332.68	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1166 Emergency Cooler/Freezer <small>(01 22 23 00-1116)</small>		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1167 DAY 8 x 6 x 7 Emergency Cooler Rental	79.97	
01 22 23 00-1168 WK 8 x 6 x 7 Emergency Cooler Rental	426.52	
01 22 23 00-1169 DAY 10 x 7 x 7 Emergency Cooler Rental	159.94	
01 22 23 00-1170 WK 10 x 7 x 7 Emergency Cooler Rental	639.78	
01 22 23 00-1171 MO 10 x 7 x 7 Emergency Cooler Rental	1,599.45	
01 22 23 00-1172 DAY 10 x 7 x 7 Emergency Freezer Rental	186.60	
01 22 23 00-1173 WK 10 x 7 x 7 Emergency Freezer Rental	746.41	
01 22 23 00-1174 MO 10 x 7 x 7 Emergency Freezer Rental	1,919.34	
01 22 23 00-1175 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	213.26	
01 22 23 00-1176 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	853.04	
01 22 23 00-1177 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	2,132.60	
01 22 23 00-1178 Portable Spot Cooling Units <small>(01 22 23 00-1116)</small>		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes operator.		
01 22 23 00-1179 DAY 1 Ton Portable Spot Cooling Unit	189.09	
01 22 23 00-1180 WK 1 Ton Portable Spot Cooling Unit	415.99	
01 22 23 00-1181 MO 1 Ton Portable Spot Cooling Unit	831.98	
01 22 23 00-1182 DAY 2 Ton Portable Spot Cooling Unit	302.54	
01 22 23 00-1183 WK 2 Ton Portable Spot Cooling Unit	605.08	
01 22 23 00-1184 MO 2 Ton Portable Spot Cooling Unit	1,361.43	
01 22 23 00-1185 DAY 3 Ton Portable Spot Cooling Unit	453.81	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1186	WK	3 Ton Portable Spot Cooling Unit.....	907.62
01 22 23 00-1187	MO	3 Ton Portable Spot Cooling Unit.....	1,815.24
01 22 23 00-1188	DAY	5 Ton Portable Spot Cooling Unit.....	529.44
01 22 23 00-1189	WK	5 Ton Portable Spot Cooling Unit.....	1,058.89
01 22 23 00-1190	MO	5 Ton Portable Spot Cooling Unit.....	2,420.32
01 22 23 00-1191	DAY	10 Ton Portable Spot Cooling Unit.....	1,134.52
01 22 23 00-1192	WK	10 Ton Portable Spot Cooling Unit.....	1,815.24
01 22 23 00-1193	MO	10 Ton Portable Spot Cooling Unit.....	3,630.48
01 22 23 00-1194	DAY	20 Ton Portable Spot Cooling Unit.....	1,512.70
01 22 23 00-1195	WK	20 Ton Portable Spot Cooling Unit.....	2,647.22
01 22 23 00-1196	MO	20 Ton Portable Spot Cooling Unit.....	5,672.62
01 22 23 00-1197	DAY	25 Ton Portable Spot Cooling Unit.....	1,739.60
01 22 23 00-1198	WK	25 Ton Portable Spot Cooling Unit.....	2,798.50
01 22 23 00-1199	MO	25 Ton Portable Spot Cooling Unit.....	6,050.80
01 22 23 00-1200		Fuel Oil Tank (01 22 23 00-1116)	
		Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.	
01 22 23 00-1201	MO	100 Gallon Portable Double Wall Fuel Oil Tank Rental	400.46
01 22 23 00-1202	MO	275 Gallon Portable Double Wall Fuel Oil Tank Rental	622.94
01 22 23 00-1203	MO	500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,557.36
01 22 23 00-1204	MO	1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,595.60
01 22 23 00-1205	MO	2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,426.19
01 22 23 00-1206	MO	5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	6,120.67
01 22 23 00-1207		Truck And Trailer Equipment (01 22 23)	
01 22 23 00-1208		Trucks (01 22 23 00-1207)	
		Note: Includes driver, delivery, and removal.	
01 22 23 00-1209		Flat Bed Trucks (01 22 23 00-1208)	
		Note: Includes hydraulic tilt bed.	
01 22 23 00-1210	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	895.22
		For Equipment Without Operator, Deduct	-644.75
01 22 23 00-1211	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,880.40
		For Equipment Without Operator, Deduct	-3,223.76
01 22 23 00-1212	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,628.18
		For Equipment Without Operator, Deduct	-13,969.65
01 22 23 00-1213	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,003.53
		For Equipment Without Operator, Deduct	-644.75
01 22 23 00-1214	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,157.95
		For Equipment Without Operator, Deduct	-3,223.76
01 22 23 00-1215	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	16,338.97
		For Equipment Without Operator, Deduct	-13,969.65
01 22 23 00-1216	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,081.25
		For Equipment Without Operator, Deduct	-644.75
01 22 23 00-1217	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,455.00
		For Equipment Without Operator, Deduct	-3,223.76
01 22 23 00-1218	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	17,469.48
		For Equipment Without Operator, Deduct	-13,969.65
01 22 23 00-1219		Light Off-Road Utility Passenger Vehicles (01 22 23 00-1208)	
01 22 23 00-1220	DAY	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	241.66
01 22 23 00-1221	WK	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	558.85
01 22 23 00-1222	MO	4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	1,208.32
01 22 23 00-1223	DAY	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	249.22
01 22 23 00-1224	WK	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	581.50
01 22 23 00-1225	MO	4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	1,283.84
01 22 23 00-1226		Light Duty Trucks (01 22 23 00-1208)	
01 22 23 00-1227	DAY	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	880.73
		For Equipment Without Operator, Deduct	-638.15
01 22 23 00-1228	WK	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	3,986.70
		For Equipment Without Operator, Deduct	-3,190.75
01 22 23 00-1229	MO	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	15,494.30
		For Equipment Without Operator, Deduct	-13,826.59
01 22 23 00-1230	DAY	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	926.21
		For Equipment Without Operator, Deduct	-638.15
01 22 23 00-1231	WK	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	4,123.15
		For Equipment Without Operator, Deduct	-3,190.75
01 22 23 00-1232	MO	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	15,797.52
		For Equipment Without Operator, Deduct	-13,826.59
01 22 23 00-1233		Rear Dump Trucks (01 22 23 00-1208)	
01 22 23 00-1234	DAY	2.5 CY Rear Dump Truck With Full-Time Truck Driver	976.15
		For Equipment Without Operator, Deduct	-644.75
01 22 23 00-1235	WK	2.5 CY Rear Dump Truck With Full-Time Truck Driver	4,099.09
		For Equipment Without Operator, Deduct	-3,223.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1236 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	16,649.69	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1237 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	1,086.02	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1238 WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,439.50	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1239 MO 4 CY Rear Dump Truck With Full-Time Truck Driver	17,121.57	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1240 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,149.06	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1241 WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,574.58	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1242 MO 6 CY Rear Dump Truck With Full-Time Truck Driver	17,211.63	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1243 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	1,896.51	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1244 WK 13 CY Rear Dump Truck With Full-Time Truck Driver	6,114.53	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1245 MO 13 CY Rear Dump Truck With Full-Time Truck Driver	21,534.27	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1246 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	2,021.69	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1247 WK 18 CY Rear Dump Truck With Full-Time Truck Driver	6,403.60	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1248 MO 18 CY Rear Dump Truck With Full-Time Truck Driver	22,290.73	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1249 Vacuum Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1250 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,887.51	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1251 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	6,966.45	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1252 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	25,014.00	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1253 Water Trucks <small>(01 22 23 00-1208)</small>		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1006 for additional discharge hose, 01 22 23 00-1269 for water trailer.		
01 22 23 00-1254 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,296.89	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1255 WK 2,000 Gallon Water Truck With Full-Time Driver	4,941.06	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1256 MO 2,000 Gallon Water Truck With Full-Time Driver	18,027.41	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1257 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	1,615.71	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1258 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	5,897.53	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1259 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	20,491.05	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1260 Asphalt Distribution Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1261 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	1,805.04	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1262 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	6,689.74	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1263 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	24,215.97	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1264 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1208)</small>		
01 22 23 00-1265 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,312.41	
<i>For Equipment Without Operator, Deduct</i>	-638.15	
01 22 23 00-1266 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	5,180.67	
<i>For Equipment Without Operator, Deduct</i>	-3,190.75	
01 22 23 00-1267 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	18,659.02	
<i>For Equipment Without Operator, Deduct</i>	-13,826.59	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1268 Trailers <small>(01 22 23 00-1207)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1269 Water Trailers With Pump <small>(01 22 23 00-1268)</small>		
01 22 23 00-1270 DAY 500 To 600 Gallon Water Trailer With Pump	166.66	
01 22 23 00-1271 WK 500 To 600 Gallon Water Trailer With Pump	427.51	
01 22 23 00-1272 MO 500 To 600 Gallon Water Trailer With Pump	1,144.87	

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001	Minimum Charge <small>(01 31 33)</small> Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.	
01 31 33 00-0002 EA	Carpenter Minimum Charge	1,051.83
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0003 EA	Carpet, Linoleum Minimum Charge	1,008.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0004 EA	Cement Mason Minimum Charge	711.67
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0005 EA	Drywall Finisher Minimum Charge	946.17
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0006 EA	Drywall Installer Minimum Charge	1,016.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0007 EA	Electrician Minimum Charge	1,238.47
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0008 EA	Glazier Minimum Charge	915.96
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0009 EA	Insulator Minimum Charge	1,065.19
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0010 EA	Laborer Minimum Charge	651.39
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0011 EA	Landscape Maintenance Worker Minimum Charge	776.39
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0012 EA	Ornamental Metal Worker Minimum Charge	976.00
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0013 EA	Painter, Ordinary Minimum Charge	791.58
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0014 EA	Plasterer Minimum Charge	928.45
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0015 EA	Plumber Minimum Charge	1,315.61
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0016 EA	Roofer, Tile/Slate Minimum Charge	1,003.23
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0017 EA	Roofer, Composite Built-Up Minimum Charge	1,003.23
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0018 EA	Sheet Metal Worker Minimum Charge	1,210.92
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0019 EA	Sprinkler Installer Minimum Charge	1,268.80
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0020 EA	Tile Layer (Floor) Minimum Charge	839.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	

01 35 Special Procedures (01 30)

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

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



General Requirements	01	10
Administrative Requirements	01 30	
Special Procedures	01 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 35 29 00-0001 Emergency Response <small>(01 35 29)</small> See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0051 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.		
01 35 29 00-0002 MI Trucking Delivery Of 20' Shipping Container	2.11	
01 35 29 00-0003 MI Trucking Delivery Of 40' Shipping Container	4.22	
01 35 33 Infection Control Procedures <small>(01 35)</small> See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.		
01 40 Quality Requirements <small>(01)</small>		
01 45 Quality Control <small>(01 40)</small>		
01 45 23 Testing and Inspecting Services <small>(01 45)</small> Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.		
01 45 23 00-0001 Soils/Aggregate Testing <small>(01 45 23)</small>		
01 45 23 00-0002 Field Soils Tests <small>(01 45 23 00-0001)</small>		
01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	275.45	
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	390.96	
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	444.28	
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test	355.42	
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test	533.13	
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	1,065.89	
01 45 23 00-0009 EA Moisture Content, Field Soils Test	39.97	
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test	140.03	
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	266.47	
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test	333.09	
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test	106.59	
01 45 23 00-0014 EA Percolation Test, Field Soils Test	266.47	
01 45 23 00-0015 EA Infiltration Test, Field Soils Test	532.95	
01 45 23 00-0016 Aggregate Testing <small>(01 45 23 00-0001)</small>		
01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	88.86	
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	159.94	
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	222.14	
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136	173.21	
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127	141.14	
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127	126.57	
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	188.19	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	177.71	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227	177.71	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	133.28	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229	142.17	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88	373.06	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211	284.34	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535	284.34	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29	79.97	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40	79.94	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method	79.94	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142	159.88	
01 45 23 00-0035 Permeability Tests <small>(01 45 23 00-0001)</small>		
01 45 23 00-0036 In-Place Tests <small>(01 45 23 00-0035)</small>		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385	1,411.42	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	66.62	
01 45 23 00-0039 Lab Tests <small>(01 45 23 00-0035)</small>		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE	658.66	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100	658.66	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	376.38	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing <small>(01 45 23)</small>		
01 45 23 00-0044 Concrete Testing <small>(01 45 23 00-0043)</small>		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	21.79	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	56.46	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	115.51	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	168.82	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567	62.20	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0050 EA Concrete Mix Design Review	337.65	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	799.70	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	621.98	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	95.96	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	44.43	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	44.43	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24)	44.43	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	71.08	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	88.86	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	231.02	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	88.86	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	231.02	
01 45 23 00-0064 EA Swell Test, CA 305	106.63	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	266.56	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	169.37	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308	35.54	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C	35.54	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum	183.04	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	119.91	
01 45 23 00-0071 EA Penetration, ASTM D5.....	128.36	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test	58.64	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test.....	58.64	
01 45 23 00-0076 EA Masonry Cores Compression Test.....	115.51	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	222.14	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	142.17	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	97.74	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	373.06	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	186.53	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	535.28	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	594.37	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	653.26	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	137.75	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	826.48	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	41.56	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	172.26	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	172.26	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	172.26	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	947.43	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves	623.51	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	3,100.68	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	5.17	
For CADD Drawings, Add	1.03	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.45	
For CADD Drawings, Add	0.69	



General Requirements	01	10
Quality Requirements	01 40	
Quality Control	01 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.58	
<i>For CADD Drawings, Add</i>	0.52	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>	0.65	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>	0.65	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	1.72	
<i>For CADD Drawings, Add</i>	0.34	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>	0.43	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>	0.43	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography <small>(01 45 23 00-0099)</small>		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge.....	1,636.47	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	5.17	
<i>For Digital Or Analog Recording Of All Items, Add</i>	2.59	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	3.45	
<i>For Digital Or Analog Recording Of All Items, Add</i>	1.73	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	1.72	
<i>For Digital Or Analog Recording Of All Items, Add</i>	0.86	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography <small>(01 45 23 00-0099)</small>		
Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge.....	3,359.07	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography	5.17	
<i>For Digital Or Analog Recording Of All Items, Add</i>	2.59	
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography.....	3.45	
<i>For Digital Or Analog Recording Of All Items, Add</i>	1.73	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography	1.72	
<i>For Digital Or Analog Recording Of All Items, Add</i>	0.86	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography <small>(01 45 23 00-0099)</small>		
Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge.....	1,636.47	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography	243.56	
<i>For Digital Or Analog Recording Of All Items, Add</i>	36.46	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography <small>(01 45 23 00-0099)</small>		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,636.47	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	5.17	
<i>For Digital Or Analog Recording Of All Items, Add</i>	0.78	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.45	
<i>For Digital Or Analog Recording Of All Items, Add</i>	0.52	
01 45 23 00-0123 Other Nondestructive Field Testing Services <small>(01 45 23 00-0098)</small>		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant.....	95.62	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant.....	119.25	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant.....	136.88	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel	139.12	
01 45 23 00-0128 Testing Professional Services <small>(01 45 23 00-0088)</small>		
01 45 23 00-0129 HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection.....	165.27	
01 45 23 00-0130 HR Laboratory Technician	159.94	
01 45 23 00-0131 HR Portable Digital Reinforcement Scanner.....	231.02	
01 45 23 00-0132 HR Subsurface Detection Radar System.....	390.96	
01 45 23 00-0133 HR Pavement Rehabilitation Analysis Using Deflectors	444.28	
01 45 29 Testing Laboratory Services <small>(01 45)</small>		
01 45 29 00-0001 Soil Borings Laboratory Tests <small>(01 45 29)</small>		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	122.32	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	39.04	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	94.10	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	658.66	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test	130.11	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	28.23	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	17.54	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	226.41	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test	78.96	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test	15.61	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	780.71	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	157.91	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test.....	195.18	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 29 00-0015	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	455.09	
01 45 29 00-0016	EA		Soil Bearing Ratio, ASTM D1883.....	399.85	
01 45 29 00-0017	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	117.11	
01 45 29 00-0018	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	99.08	
01 45 29 00-0019	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	385.08	
01 45 29 00-0020	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	59.85	

01 50 Temporary Facilities and Controls (01 50)

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities (01 50)

01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,617.96
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,524.86
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,579.27
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,373.89

01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13)

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,618.08
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,316.69
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,609.24
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,219.04

01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards (01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	9.49
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	10.40

01 51 26 Temporary Lighting (01 51)

01 51 26 00-0001 Temporary Devices (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	320.73
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	117.86
01 51 26 00-0004	EA	Temporary High Bay Light.....	445.92

01 52 Construction Facilities (01 50)

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

01 52 13 Field Offices and Sheds (01 52)

01 52 13 00-0001 Field Offices (01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	166.62
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	692.02
		<i>For Each Set-Up (Block And Level), Add</i>	388.51
		<i>For Each Anchoring Into Dirt, Add</i>	118.47
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71
		<i>For Office Trailer Without Toilet, Deduct</i>	-33.32
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	188.83
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	692.02
		<i>For Each Set-Up (Block And Level), Add</i>	388.51
		<i>For Each Anchoring Into Dirt, Add</i>	118.47
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71
		<i>For Office Trailer Without Toilet, Deduct</i>	-37.77
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	255.48
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37
		<i>For Each Set-Up (Block And Level), Add</i>	633.89
		<i>For Each Anchoring Into Dirt, Add</i>	118.47
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71
		<i>For Office Trailer Without Toilet, Deduct</i>	-51.10
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	272.15
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37
		<i>For Each Set-Up (Block And Level), Add</i>	633.89
		<i>For Each Anchoring Into Dirt, Add</i>	118.47
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71
		<i>For Office Trailer Without Toilet, Deduct</i>	-54.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	299.92	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	316.58	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	244.93	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
For Each Delivery And Set-Up (Block And Level), Add	949.29	
For Each Knock-Down And Pick-Up, Add	754.29	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	327.47	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	372.12	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	405.44	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet	888.63	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet	1,066.36	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet	506.80	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer	45.84	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	28.65	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer	34.38	
01 52 13 00-0019 MO Table For Field Office Trailer	22.92	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer	10.86	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer	126.07	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	80.23	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	144.45	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer.....	14.22	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer	33.68	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	41.47	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	57.30	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	91.69	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container	192.50	
For Each Delivery And Removal, Two Round Trips, Add	225.69	
For >12 Months, Deduct	-57.75	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container	201.25	
For Each Delivery And Removal, Two Round Trips, Add	248.26	
For >12 Months, Deduct	-60.38	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container	238.00	
For Each Delivery And Removal, Two Round Trips, Add	500.00	
For >12 Months, Deduct	-71.40	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	59.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0003	MO		Portable Chemical Toilet.....	177.00	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0004	WK		Americans With Disabilities Act Compliant Portable Chemical Toilet.....	70.37	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0005	MO		Americans With Disabilities Act Compliant Portable Chemical Toilet.....	206.49	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0006	WK		Two Station Portable Handwash.....	43.93	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0007	MO		Two Station Portable Handwash.....	133.24	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0008	MO		6 Station, Portable Toilets, Multi Trailer	3,661.58	
			Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009	WK		Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,112.45	

01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)

Note: Includes removal after use.

01 53 16 00-0002	SF		Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	6.88	
01 53 16 00-0003	LF		Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	33.32	
01 53 16 00-0004	LF		Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	12.51	
01 53 16 00-0005	RSR		Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	23.78	

01 53 23 Temporary Ramps (01 53)

01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)

Note: Includes removal after use.

01 53 23 00-0002	SF		Temporary Plywood For Wheel Barrow Access.....	1.57	0.50
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01 54 Construction Aids (01 50)

01 54 09 Personnel Protection Equipment (01 54)

01 54 09 00-0001 Personnel Protection Equipment (01 54 09)

Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.

01 54 09 00-0002	NTE		Personnel Protection Equipment.....	0.00	
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01 54 23 Temporary Scaffolding and Platforms (01 54)

01 54 23 00-0001 Scaffolding (01 54 23)

Note: Additional scaffolding rental for work above the normal working height.

01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54 23 00-0003	CCF		Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	28.12	
			<i>For Up To 25, Add</i>	11.25	
			<i>For >25 To 50, Add</i>	7.03	
			<i>For >50 To 150, Add</i>	2.81	
01 54 23 00-0004	CCF		Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	31.62	
			<i>For Up To 25, Add</i>	12.65	
			<i>For >25 To 50, Add</i>	7.91	
			<i>For >50 To 150, Add</i>	3.16	
01 54 23 00-0005	CCF		Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	42.18	
			<i>For Up To 25, Add</i>	16.87	
			<i>For >25 To 50, Add</i>	10.55	
			<i>For >50 To 150, Add</i>	4.22	

01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54 23 00-0007	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.38	
01 54 23 00-0008	CCF		>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	65.48	
01 54 23 00-0009	CCF		>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	78.57	
01 54 23 00-0010	CCF		>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	86.43	
01 54 23 00-0011	CCF		>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	99.52	
01 54 23 00-0012	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	62.86	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0013				Heavy Duty Masonry Scaffolding Rental - Rental Only <small>(01 54 23 00-0001)</small> Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.		
	01 54 23 00-0014	CCF		Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	54.82	
	01 54 23 00-0015	CCF		Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	100.51	
	01 54 23 00-0016	LF		Aluminum Joists (LF / Month)	8.91	
	01 54 23 00-0017	LF		Aluminum Stringers (LF / Month)	12.78	
	01 54 23 00-0018	EA		Screw Jack With U-Plate For Stringers (EA / Month).....	16.11	
01 54 23 00-0019				Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only <small>(01 54 23 00-0001)</small> Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
	01 54 23 00-0020	CCF		Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	83.81	
	01 54 23 00-0021	CCF		>20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	104.76	
	01 54 23 00-0022	CCF		>40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	125.71	
	01 54 23 00-0023	CCF		>60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	136.19	
	01 54 23 00-0024	CCF		>80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	151.90	
01 54 23 00-0025				Scaffolding Accessories <small>(01 54 23 00-0001)</small> See CSI section 01 54 23 00-0019 for erection.		
	01 54 23 00-0026	CSF		Netting for Exterior Building Scaffolding	35.64	
				Note: Includes removal after use.		
01 54 23 00-0027				Rolling Scaffolding <small>(01 54 23)</small> Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
	01 54 23 00-0028	DAY		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.39	
	01 54 23 00-0029	WK		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	41.65	
	01 54 23 00-0030	MO		>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	166.57	
	01 54 23 00-0031	DAY		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.40	
	01 54 23 00-0032	WK		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	69.68	
	01 54 23 00-0033	MO		>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	278.76	
	01 54 23 00-0034	EA		>14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	98.56	
	01 54 23 00-0035	EA		>20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	123.20	
01 54 23 00-0036				Shoring Posts <small>(01 54 23)</small> Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.		
	01 54 23 00-0037	DAY		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	6.44	
	01 54 23 00-0038	WK		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	19.31	
	01 54 23 00-0039	MO		6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	32.19	
01 54 23 00-0040				Temporary Lumber <small>(01 54 23)</small> Note: Includes removal after use.		
	01 54 23 00-0041	SF		5/16" CD Grade Plywood, Temporary Lumber	2.70	
	01 54 23 00-0042	SF		1/2" CD Grade Plywood, Temporary Lumber	2.84	
	01 54 23 00-0043	SF		5/8" CD Grade Plywood, Temporary Lumber	3.49	
	01 54 23 00-0044	SF		3/4" CD Grade Plywood, Temporary Lumber	3.90	
	01 54 23 00-0045	SF		1" CD Grade Plywood, Temporary Lumber	5.92	
	01 54 23 00-0046	LF		2" x 4" Temporary Lumber	3.07	
	01 54 23 00-0047	LF		2" x 6" Temporary Lumber	3.86	
	01 54 23 00-0048	LF		2" x 8" Temporary Lumber	4.65	
	01 54 23 00-0049	LF		2" x 10" Temporary Lumber	5.46	
	01 54 23 00-0050	LF		2" x 12" Temporary Lumber	6.25	
	01 54 23 00-0051	LF		3" x 8" Temporary Lumber	6.25	
	01 54 23 00-0052	LF		3" x 10" Temporary Lumber	7.44	
	01 54 23 00-0053	LF		3" x 12" Temporary Lumber	8.63	
	01 54 23 00-0054	LF		4" x 4" Temporary Lumber	4.08	
	01 54 23 00-0055	LF		4" x 6" Temporary Lumber	5.80	
	01 54 23 00-0056	LF		6" x 6" Temporary Lumber	7.53	
	01 54 23 00-0057	LF		6" x 8" Temporary Lumber	9.75	
	01 54 23 00-0058	LF		12" x 12" Temporary Lumber	23.47	
01 54 23 00-0059				Temporary Precast Concrete Blocks <small>(01 54 23)</small> Note: Includes removal after use.		
	01 54 23 00-0060	EA		2' x 2' x 2' Temporary Precast Concrete Block	100.87	
	01 54 23 00-0061	EA		2' x 2' x 4' Temporary Precast Concrete Block	126.08	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0062 EA 2' x 2' x 8' Temporary Precast Concrete Block.....	151.31	
01 54 26 Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	2,409.84	
01 54 26 00-0003 MO 10' Swing Stage, Electric Operated	2,530.33	
01 54 26 00-0004 MO 14' Swing Stage, Electric Operated	2,650.82	
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	2,771.31	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	2,891.80	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,012.30	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	3,132.79	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated	694.89	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated	868.61	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling..... Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.	4,202.13	
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,839.57	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,209.57	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,077.62	
01 55 Vehicular Access and Parking (01 50)		
01 55 23 Temporary Roads (01 55)		
01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23) Note: As per Caltrans detail.		
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.90	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.07	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	321.86	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	85.83	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	21.46	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23) Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,983.33	191.22
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,427.04	286.83
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	7,496.98	382.45
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	15,516.21	478.07
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	22,752.63	573.68
01 55 26 Traffic Control (01 55)		
01 55 26 00-0001 Removable Prefomed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask.....	5.93	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask.....	7.37	
01 55 26 00-0004 Temporary Prefomed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	4.39	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	5.96	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	7.43	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	2.10	
For Not Removed, Deduct	-2.76	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.76	
For Not Removed, Deduct	-3.73	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0011	LF		8" Temporary Painted Traffic Lines..... <i>For Not Removed, Deduct</i>	3.47 -4.72	
01 55 26 00-0012	EA		2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.90	
01 55 26 00-0013	EA		2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.92	
01 55 26 00-0014			Pedestrian Traffic Control <small>(01 55 26)</small>		
01 55 26 00-0015	CLF		1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	12.68	
01 55 26 00-0016	CLF		2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	17.36	
01 55 26 00-0017	CLF		3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.82	
01 55 26 00-0018	CLF		2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	11.19	
01 55 26 00-0019	CLF		3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	12.70	
01 55 26 00-0020	CLF		6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	18.71	
01 55 26 00-0021	CLF		1" Exterior Vinyl Tape (Warning Tape)	15.99	
01 55 26 00-0022	CLF		2" Exterior Vinyl Tape (Warning Tape)	23.64	
01 55 26 00-0023	CLF		3" Exterior Vinyl Tape (Warning Tape)	31.17	
01 55 26 00-0024	CLF		4" Exterior Vinyl Tape (Warning Tape)	36.56	
01 55 26 00-0025			Linear Delineation System, Temporary Or Permanent <small>(01 55 26)</small> Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026	LF		4" Linear Delineation System.....	9.25	
01 55 26 00-0027	LF		6" Linear Delineation System.....	12.47	
01 55 26 00-0028			Traffic Protection <small>(01 55 26)</small>		
01 55 26 00-0029			Portable Traffic Control Device Usage <small>(01 55 26 00-0028)</small> Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0030	DAY		28" Cone With Reflective Collar.....	0.69	
01 55 26 00-0031	WK		28" Cone With Reflective Collar.....	2.07	
01 55 26 00-0032	MO		28" Cone With Reflective Collar.....	6.22	
01 55 26 00-0033	DAY		Vertical Panel.....	2.09	
01 55 26 00-0034	WK		Vertical Panel.....	6.26	
01 55 26 00-0035	MO		Vertical Panel.....	18.79	
01 55 26 00-0036	DAY		Channelizer Drum.....	2.27	
01 55 26 00-0037	WK		Channelizer Drum.....	6.80	
01 55 26 00-0038	MO		Channelizer Drum.....	20.39	
01 55 26 00-0039	DAY		Stackable Channelizer Panel.....	1.07	
01 55 26 00-0040	WK		Stackable Channelizer Panel.....	3.21	
01 55 26 00-0041	MO		Stackable Channelizer Panel.....	9.64	
01 55 26 00-0042	DAY		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.48	
01 55 26 00-0043	WK		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	4.45	
01 55 26 00-0044	MO		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	13.36	
01 55 26 00-0045	DAY		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	3.29	
01 55 26 00-0046	WK		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	9.87	
01 55 26 00-0047	MO		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	29.60	
01 55 26 00-0048	DAY		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	3.75	
01 55 26 00-0049	WK		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	11.25	
01 55 26 00-0050	MO		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	33.74	
01 55 26 00-0051	DAY		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	6.86	
01 55 26 00-0052	WK		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	20.57	
01 55 26 00-0053	MO		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	61.71	
01 55 26 00-0054	DAY		Up To 10' Wide A Frame Barricade	3.76	
01 55 26 00-0055	WK		Up To 10' Wide A Frame Barricade	11.28	
01 55 26 00-0056	MO		Up To 10' Wide A Frame Barricade	33.85	
01 55 26 00-0057	DAY		Type A Or C Flasher.....	0.77	
01 55 26 00-0058	WK		Type A Or C Flasher.....	2.30	
01 55 26 00-0059	MO		Type A Or C Flasher.....	6.90	
01 55 26 00-0060	DAY		Type B Flasher (High Intensity)	4.16	
01 55 26 00-0061	WK		Type B Flasher (High Intensity)	12.47	
01 55 26 00-0062	MO		Type B Flasher (High Intensity)	37.42	
01 55 26 00-0063			Traffic Barriers Usage <small>(01 55 26 00-0028)</small> Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0064	DAY		6' Long Portable Parking Curbs	1.79	
01 55 26 00-0065	WK		6' Long Portable Parking Curbs	5.37	
01 55 26 00-0066	MO		6' Long Portable Parking Curbs	16.12	
01 55 26 00-0067	DAY		6' Long Portable Speed Bumps	5.30	
01 55 26 00-0068	WK		6' Long Portable Speed Bumps	15.90	
01 55 26 00-0069	MO		6' Long Portable Speed Bumps	47.70	
01 55 26 00-0070	DAY		Up To 12.5' Concrete Traffic Barrier	12.73	
01 55 26 00-0071	WK		Up To 12.5' Concrete Traffic Barrier	38.20	
01 55 26 00-0072	MO		Up To 12.5' Concrete Traffic Barrier	114.59	
01 55 26 00-0073	DAY		>12.5' To 20' Concrete Traffic Barrier	25.46	
01 55 26 00-0074	WK		>12.5' To 20' Concrete Traffic Barrier	76.39	
01 55 26 00-0075	MO		>12.5' To 20' Concrete Traffic Barrier	229.18	
01 55 26 00-0076	DAY		6' x 32" Tall Plastic Water Barrier	15.20	
01 55 26 00-0077	WK		6' x 32" Tall Plastic Water Barrier	45.61	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	136.84	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	21.71	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	65.13	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	195.40	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	8.50	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	25.49	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	76.48	
01 55 26 00-0085 Portable Signs And Message Displays Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand	6.67	
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand	20.02	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand	60.05	
01 55 26 00-0089 DAY Aluminum Sign And Post	3.38	
01 55 26 00-0090 WK Aluminum Sign And Post	10.14	
01 55 26 00-0091 MO Aluminum Sign And Post	30.41	
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand	5.04	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand	15.13	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand	45.40	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board	102.00	
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board	282.32	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board	746.77	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	366.00	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS)	976.00	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,952.00	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,136.03	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	3,408.09	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	10,224.27	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 Place And Remove Traffic Protection Using Truck (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck.....	3.37	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck	2.96	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.57	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.64	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	8.44	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck.....	6.75	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.44	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck.....	5.07	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck	21.09	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	63.29	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	85.83	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	214.58	
For 2 Barriers, Add	77.25	
For 3 Barriers, Add	25.75	
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	128.76	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	321.90	
For 2 Barriers, Add	115.88	
For 3 Barriers, Add	38.63	
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier.....	48.74	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	107.30	
For 2 Barriers, Add	38.63	
For 3 Barriers, Add	12.88	
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels	64.38	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	160.95	
For 2 Barriers, Add	57.94	
For 3 Barriers, Add	19.31	
01 55 26 00-0119 Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0028)		
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.11	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.69	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	2.81	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.24	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.21	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.55	
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	31.64	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier.....	42.92	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0129 Temporary Rumble Strips (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	11.02	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	7.96	
01 56 Temporary Barriers and Enclosures (01 50)		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors	0.33	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.43	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.57	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.57	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.40	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.50	
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.64	
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.61	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.77	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.42	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.52	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.66	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.63	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors	0.41	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls	0.51	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings	0.65	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding	0.62	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors	0.47	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.71	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.68	
01 56 16 00-0023 Accessories For Temporary Sheeting (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0024 EA 7' Zipper Door For Plastic Sheeting	21.59	
01 56 16 00-0025 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	8.20	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0026 Temporary Critical Barriers For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0027 EA Up To 1 SF Individual Critical Barriers	11.86	
Note: For Outlets And Receptacles		
01 56 16 00-0028 EA >1 To 4 SF Individual Critical Barriers	17.95	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0029 EA >4 To 8 SF Individual Critical Barriers	24.12	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0030 EA >8 To 32 SF Individual Critical Barriers	37.48	
Note: For doors, windows, etc.		
01 56 16 00-0031 Temporary Stud Wall (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0032 Temporary Stud Wall With Drywall (01 56 16 00-0031)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0033 Temporary Stud Wall With Drywall (01 56 16 00-0032)		
01 56 16 00-0034 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct 0.62</i>		
01 56 16 00-0035 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct 0.62</i>		
01 56 16 00-0036 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.32	
<i>For Metal Studs 24" On Center, Add/Deduct 0.62</i>		
01 56 16 00-0037 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct 0.72</i>		
01 56 16 00-0038 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct 0.72</i>		
01 56 16 00-0039 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.73	
<i>For Metal Studs 24" On Center, Add/Deduct 0.72</i>		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 16 00-0040	Temporary Stud Wall With Fire Rated Drywall <small>(01 56 16 00-0032)</small>	
01 56 16 00-0041	SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.33 0.62
01 56 16 00-0042	SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.36 0.62
01 56 16 00-0043	SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.31 0.62
01 56 16 00-0044	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.93 0.62
01 56 16 00-0045	SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.75 0.72
01 56 16 00-0046	SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.80 0.72
01 56 16 00-0047	SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.71 0.72
01 56 16 00-0048	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.95 0.72

01 56 16 00-0049	Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.</small>	
01 56 16 00-0050	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.23 0.62
01 56 16 00-0051	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.28 0.62
01 56 16 00-0052	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.42 0.62
01 56 16 00-0053	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.49 0.62
01 56 16 00-0054	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.55 0.72
01 56 16 00-0055	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.65 0.72
01 56 16 00-0056	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.92 0.72
01 56 16 00-0057	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.06 0.72

01 56 16 00-0058	Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.</small>	
01 56 16 00-0059	SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.56 0.62
01 56 16 00-0060	SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.73 0.62
01 56 16 00-0061	SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.40 0.62
01 56 16 00-0062	SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.62 0.62
01 56 16 00-0063	SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.20 0.72
01 56 16 00-0064	SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.55 0.72
01 56 16 00-0065	SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.89 0.72
01 56 16 00-0066	SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	11.32 0.72

01 56 16 00-0067	Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.</small>	
01 56 16 00-0068	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.63 0.51
01 56 16 00-0069	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.70 0.51
01 56 16 00-0070	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.72 0.51
01 56 16 00-0071	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.71 0.51
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.77 0.51

01 56 16 00-0073	Temporary Doors <small>(01 56 16 00-0031)</small>	
	<small>Note: For temporary stud walls. Includes removal after use.</small>	
01 56 16 00-0074	EA Temporary Metal Door And Frame <small>Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.</small>	641.83



General Requirements	01	10
Temporary Facilities and Controls	01 50	
Temporary Barriers and Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0075 Temporary Floor Protection <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0076 SF Masonite For Temporary Floor Protection	1.86	
01 56 16 00-0077 SF 1/2" Plywood For Temporary Floor Protection	1.87	
01 56 16 00-0078 SF 3/4" Plywood For Temporary Floor Protection	2.51	
01 56 16 00-0079 LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	1.12	
01 56 16 00-0080 LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.33	
01 56 16 00-0081 CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film	22.38	
01 56 16 00-0082 SF Burlap For Temporary Floor Protection	0.68	
01 56 16 00-0083 Sticky Mats <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0084 EA 18" x 36", 30 Layer Sticky Mat	30.50	
For 60 Layers Instead Of 30, Add	19.91	
01 56 16 00-0085 EA 18" x 46", 30 Layer Sticky Mat	34.93	
For 60 Layers Instead Of 30, Add	23.24	
01 56 16 00-0086 EA 24" x 36", 30 Layer Sticky Mat	34.93	
For 60 Layers Instead Of 30, Add	23.24	
01 56 16 00-0087 EA 25" x 45", 30 Layer Sticky Mat	45.99	
For 60 Layers Instead Of 30, Add	31.53	
01 56 16 00-0088 EA 36" x 36", 30 Layer Sticky Mat	50.42	
For 60 Layers Instead Of 30, Add	34.85	
01 56 16 00-0089 EA 36" x 46", 30 Layer Sticky Mat	54.84	
For 60 Layers Instead Of 30, Add	38.17	
01 56 16 00-0090 EA 36" x 60", 30 Layer Sticky Mat	110.16	
For 60 Layers Instead Of 30, Add	79.66	
01 56 16 00-0091 EA 36" x 72", 30 Layer Sticky Mat	131.41	
01 56 26 Temporary Fencing <small>(01 56)</small>		
01 56 26 00-0001 Temporary Fencing <small>(01 56 26)</small>		
Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence <small>(01 56 26 00-0001)</small>		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months	5.80	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.27	
For >500, Deduct	-0.40	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months	6.46	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.30	
For >500, Deduct	-0.45	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months	8.84	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.51	
For >500, Deduct	-0.76	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months	19.22	
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-2.25	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	6.07	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.29	
For >500, Deduct	-0.44	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	6.76	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.33	
For >500, Deduct	-0.49	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	9.34	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.83	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	20.71	
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-2.48	
For Each LF Shade Cloth, Add	4.75	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	6.37	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.48	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	7.10	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.54	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	9.91	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.61	
For >500, Deduct	-0.92	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	22.37	
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.82	
For >500, Deduct	-2.73	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.69	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.53	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.44	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	10.51	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-1.01	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	24.18	
For >100 To 250, Deduct	-1.00	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-3.00	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates <small>(01 56 26 00-0001)</small>		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	228.12	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	389.05	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	435.27	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	495.69	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	593.26	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	660.88	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	244.48	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.72	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	471.80	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	547.35	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	661.36	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	751.58	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	273.18	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	482.91	
For Shade Cloth, Add	70.95	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	539.66	
For Shade Cloth, Add	85.14	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.19	
For Shade Cloth, Add	106.43	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	755.51	
For Shade Cloth, Add	141.90	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	878.78	
For Shade Cloth, Add	170.29	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	330.51	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	578.20	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	647.47	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	740.58	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	905.32	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,048.15	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	236.57	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	402.19	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	450.28	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	512.59	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	613.91	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	683.41	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	253.31	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	434.45	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	487.50	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	565.02	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	682.95	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	775.13	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	282.90	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	498.02	
For Shade Cloth, Add	70.95	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	556.93	
For Shade Cloth, Add	85.14	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	637.62	
For Shade Cloth, Add	106.43	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	779.26	
For Shade Cloth, Add	141.90	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	904.68	
For Shade Cloth, Add	170.29	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	342.66	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	597.08	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	669.06	
For Each LF Shade Cloth, Add	112.34	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0079	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	764.86	
			<i>For Each LF Shade Cloth, Add</i>	140.43	
01 56 26 00-0080	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	935.00	
			<i>For Each LF Shade Cloth, Add</i>	187.24	
01 56 26 00-0081	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,080.53	
			<i>For Each LF Shade Cloth, Add</i>	224.68	
01 56 26 00-0082			Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083			4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	245.44	
			<i>For Each LF Shade Cloth, Add</i>	12.61	
01 56 26 00-0085	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	415.98	
			<i>For Each LF Shade Cloth, Add</i>	31.53	
01 56 26 00-0086	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	466.05	
			<i>For Each LF Shade Cloth, Add</i>	37.84	
01 56 26 00-0087	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	530.33	
			<i>For Each LF Shade Cloth, Add</i>	47.30	
01 56 26 00-0088	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	635.59	
			<i>For Each LF Shade Cloth, Add</i>	63.07	
01 56 26 00-0089	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	707.06	
			<i>For Each LF Shade Cloth, Add</i>	75.68	
01 56 26 00-0090			6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	262.58	
			<i>For Each LF Shade Cloth, Add</i>	20.10	
01 56 26 00-0092	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	448.87	
			<i>For Each LF Shade Cloth, Add</i>	50.26	
01 56 26 00-0093	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	503.98	
			<i>For Each LF Shade Cloth, Add</i>	60.31	
01 56 26 00-0094	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	583.56	
			<i>For Each LF Shade Cloth, Add</i>	75.39	
01 56 26 00-0095	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	705.61	
			<i>For Each LF Shade Cloth, Add</i>	100.52	
01 56 26 00-0096	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	799.86	
			<i>For Each LF Shade Cloth, Add</i>	120.62	
01 56 26 00-0097			8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	293.10	
			<i>For Each LF Shade Cloth, Add</i>	28.38	
01 56 26 00-0099	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	513.89	
			<i>For Shade Cloth, Add</i>	70.95	
01 56 26 00-0100	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	575.06	
			<i>For Shade Cloth, Add</i>	85.14	
01 56 26 00-0101	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	658.02	
			<i>For Shade Cloth, Add</i>	106.43	
01 56 26 00-0102	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	804.19	
			<i>For Shade Cloth, Add</i>	141.90	
01 56 26 00-0103	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	931.88	
			<i>For Shade Cloth, Add</i>	170.29	
01 56 26 00-0104			10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	355.40	
			<i>For Each LF Shade Cloth, Add</i>	37.45	
01 56 26 00-0106	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	616.92	
			<i>For Each LF Shade Cloth, Add</i>	93.62	
01 56 26 00-0107	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	691.72	
			<i>For Each LF Shade Cloth, Add</i>	112.34	
01 56 26 00-0108	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	790.36	
			<i>For Each LF Shade Cloth, Add</i>	140.43	
01 56 26 00-0109	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	966.16	
			<i>For Each LF Shade Cloth, Add</i>	187.24	
01 56 26 00-0110	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,114.53	
			<i>For Each LF Shade Cloth, Add</i>	224.68	
01 56 26 00-0111			Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112			4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	254.31	
			<i>For Each LF Shade Cloth, Add</i>	12.61	
01 56 26 00-0114	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	429.78	
			<i>For Each LF Shade Cloth, Add</i>	31.53	
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	481.82	
			<i>For Each LF Shade Cloth, Add</i>	37.84	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	548.06	
			<i>For Each LF Shade Cloth, Add</i>	47.30	
01 56 26 00-0117	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	657.27	
			<i>For Each LF Shade Cloth, Add</i>	63.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	730.71 75.68	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	271.85 20.10	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	463.30 50.26	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	520.46 60.31	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	602.11 75.39	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	728.28 100.52	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	824.58 120.62	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	303.30 28.38	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	529.76 70.95	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	593.19 85.14	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	678.41 106.43	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	829.12 141.90	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	959.08 170.29	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	368.15 37.45	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	636.75 93.62	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	714.39 112.34	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	815.86 140.43	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	997.33 187.24	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	1,148.53 224.68	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) <small>(01 56 26 00-0001)</small> Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.32 -0.16 -0.32 -0.48 1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.03 -0.18 -0.36 -0.53 2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.52 -0.29 -0.57 -0.86 3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.60 -0.17 -0.35 -0.52 1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.32 -0.19 -0.39 -0.58 2.55	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months .....10.02 <i>For >100 To 250, Deduct</i> -0.31 <i>For >250 To 500, Deduct</i> -0.62 <i>For >500, Deduct</i> -0.93 <i>For Each LF Shade Cloth, Add</i> 3.60		
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months .....6.87 <i>For >100 To 250, Deduct</i> -0.19 <i>For >250 To 500, Deduct</i> -0.37 <i>For >500, Deduct</i> -0.56 <i>For Each LF Shade Cloth, Add</i> 1.60		
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months .....7.66 <i>For >100 To 250, Deduct</i> -0.21 <i>For >250 To 500, Deduct</i> -0.42 <i>For >500, Deduct</i> -0.63 <i>For Each LF Shade Cloth, Add</i> 2.55		
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months .....10.59 <i>For >100 To 250, Deduct</i> -0.34 <i>For >250 To 500, Deduct</i> -0.68 <i>For >500, Deduct</i> -1.02 <i>For Each LF Shade Cloth, Add</i> 3.60		
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months .....7.21 <i>For >100 To 250, Deduct</i> -0.20 <i>For >250 To 500, Deduct</i> -0.41 <i>For >500, Deduct</i> -0.61 <i>For Each LF Shade Cloth, Add</i> 1.60		
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months .....8.00 <i>For >100 To 250, Deduct</i> -0.23 <i>For >250 To 500, Deduct</i> -0.45 <i>For >500, Deduct</i> -0.68 <i>For Each LF Shade Cloth, Add</i> 2.55		
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months .....11.18 <i>For >100 To 250, Deduct</i> -0.37 <i>For >250 To 500, Deduct</i> -0.74 <i>For >500, Deduct</i> -1.11 <i>For Each LF Shade Cloth, Add</i> 3.60		
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....6.22 Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001) Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts .....3.45		
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts .....5.17		
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts .....7.47		
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts .....9.19		
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing .....0.79		
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing .....0.94		
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing .....1.06		
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts .....102.57		
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts .....118.35		
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts .....145.97		
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts .....157.81		
01 56 26 00-0174 Temporary Safety Fence (01 56 26) Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence .....3.21		
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29) Note: Includes removal after use.		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0003	LF	Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	167.62	
		<i>For 3 Post System, Add</i>	6.00	
		<i>For Each Additional Foot Over 8' Wide, Add</i>	3.00	
		<i>For Each Additional Foot Over 8' High, Add</i>	2.00	
01 56 29 00-0004	LF	Installation of Netting for Sidewalk Bridge 4.27		
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)				
01 56 29 00-0006	LF	Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Assembly 12.08 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	1.81	
01 56 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 13.61 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.04	
01 56 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 15.12 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.27	
01 56 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Assembly 15.12 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.27	
01 56 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 16.61 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.49	
01 56 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 19.67 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.95	
01 56 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 18.16 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	2.72	
01 56 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 21.18 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	3.18	
01 56 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 22.66 Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		<i>For 3 Post System, Add</i>	3.40	
01 56 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge 2.27		
01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)				
01 56 29 00-0017	LF	Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 34.89 Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
		<i>For 3 Post System, Add</i>	2.50	
		<i>For Each Additional Foot Over 8' Wide, Add</i>	1.25	
		<i>For Each Additional Foot Over 8' High, Add</i>	0.75	
01 56 29 00-0018	LF	Removal Of Netting For Sidewalk Bridge 2.13		
01 56 29 00-0019 Safety Nets (01 56 29)				
		Note: Includes removal after use.		
01 56 29 00-0020	SF	Small Mesh Debris Netting 1.86 Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33 Temporary Security Barriers (01 56)				
01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)				
		Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPN	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day 11.84		
01 56 33 00-0003	SF	5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening 8.07		
01 56 33 00-0004	SF	3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening 9.35		
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)				
		Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 11.27		
01 56 33 00-0007	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 27.36		
01 56 33 00-0008	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 82.07		
01 56 39 Temporary Tree and Plant Protection (01 56)				
01 56 39 00-0001 Temporary Tree Guards (01 56 39)				
		Note: Includes digging holes and removal after use.		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56	39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	169.01	
01 56	39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	199.65	
01 56	39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	216.83	

01 57 Temporary Controls (01 50)

01 57 23 Temporary Storm Water Pollution Control (01 57)

01 57 23 00-0001 Temporary Drain Guard (01 57 23)
Note: Includes removal after use.

01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)	90.20	
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)	88.54	
		Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)	111.86	
		Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)	110.19	
		Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)	135.18	
		Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001		Project Sign <small>(01 58 13)</small>		
01 58 13 00-0002		MDO Plywood Signs <small>(01 58 13 00-0001)</small>		
		Note: Excludes posts.		
01 58 13 00-0003		Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0004		Engineer Grade, Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0003)</small>		
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	143.13	21.70
		For High-Intensity Grade, Add	34.91	
		For Diamond Grade, Add	67.32	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	244.82	22.69
		For High-Intensity Grade, Add	69.81	
		For Diamond Grade, Add	134.63	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	346.53	23.67
		For High-Intensity Grade, Add	104.71	
		For Diamond Grade, Add	201.95	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	448.22	24.66
		For High-Intensity Grade, Add	139.62	
		For Diamond Grade, Add	269.26	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	14.05	0.79
		For High-Intensity Grade, Add	4.36	
		For Diamond Grade, Add	8.42	
01 58 13 00-0010		Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0011		One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	178.70	21.70
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	212.96	22.69
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	266.45	23.67
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	316.94	24.66
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	9.94	0.79
01 58 13 00-0017		Full Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	182.51	21.70
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	233.50	22.69
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	287.31	23.67
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	334.83	24.66
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	10.50	0.79
01 58 13 00-0023		Fabricate And Install New Posts <small>(01 58 13 00-0001)</small>		
		Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts	14.93	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts	12.59	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts	14.92	
01 58 13 00-0027		Owner Supplied Signs <small>(01 58 13 00-0001)</small>		
01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign	78.91	



General Requirements	01	10
Product Requirements	01 60	
Project Identification	01 58	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 60 Product Requirements ⁽⁰¹⁾

01 66 Product Storage and Handling Requirements ^(01 60)

01 66 19 Product Handling Requirements ^(01 66)

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

01 66 19 00-0001	Transfer Delivered Materials Between Floors ^(01 66 19)			
	Note: For moving delivered, owner supplied or existing materials in a building.			
01 66 19 00-0002	CY Transfer Delivered Material Between Floors Via Stairs, Per Floor.....			15.18
	Note: Quantity equals volume of materials multiplied by number of floors traveled.			
01 66 19 00-0003	CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....			9.86
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.			
01 66 19 00-0004	Transfer Delivered Materials Distances Greater Than 125' ^(01 66 19)			
	Note: For moving delivered, owner supplied or existing materials in a building.			
01 66 19 00-0005	CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'.....			6.16
01 66 19 00-0006	Transfer Demolition Debris Between Floors ^(01 66 19)			
	Note: Only for use with demolition tasks.			
01 66 19 00-0007	CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor.....			15.18
	Note: Quantity equals material volume times bulk factor times number of floors traveled.			
01 66 19 00-0008	CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip.....			9.86
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.			
01 66 19 00-0009	Transfer Demolition Debris Distances Greater Than 125' ^(01 66 19)			
	Note: Only for use with demolition tasks.			
01 66 19 00-0010	CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....			6.16
01 66 19 00-0011	Moving Furniture And Furnishings ^(01 66 19)			
	Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.			
01 66 19 00-0012	SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings.....			0.98
	Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.			

01 70 Execution and Closeout Requirements ⁽⁰¹⁾

01 71 Examination and Preparation ^(01 70)

01 71 13 Mobilization ^(01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)			
	Note: Excludes flagman for traffic control where necessary.			
01 71 13 00-0002	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck.....			280.40
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.			
01 71 13 00-0003	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....			951.57
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.			
01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)			
	Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.			
01 71 13 00-0005	EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....			448.64
	Note: Includes delivery and pickup.			
	For >30 To 60 Miles Radius, Add			112.16
	For >60 To 100 Miles Radius, Add			179.46
01 71 13 00-0006	EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane.....			729.03
	Note: Includes delivery and pickup.			
	For >30 To 60 Miles Radius, Add			182.26
	For >60 To 100 Miles Radius, Add			291.61
01 71 13 00-0007	EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane.....			1,009.43
	Note: Includes delivery and pickup.			
	For >30 To 60 Miles Radius, Add			252.36
	For >60 To 100 Miles Radius, Add			403.77
01 71 13 00-0008	EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane.....			1,626.30
	Note: Includes delivery and pickup.			
	For >30 To 60 Miles Radius, Add			406.58
	For >60 To 100 Miles Radius, Add			650.52

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71	13 00-0009	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,041.28 510.32 816.51	
01 71	13 00-0010	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,540.38 635.10 1,016.15	
01 71	13 00-0011	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,927.34 731.84 1,170.94	
01 71	13 00-0012	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,275.02 818.76 1,310.01	
01 71	13 00-0013	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	1,738.45 434.61 695.38	
01 71	13 00-0014	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,747.88 686.97 1,099.15	
01 71	13 00-0015	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,476.90 869.23 1,390.76	
01 71	13 00-0016	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	4,318.09 1,079.52 1,727.24	
01 71	13 00-0017	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	5,383.60 1,345.90 2,153.44	
01 71	13 00-0018	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	6,280.86 1,570.22 2,512.34	
01 71	13 00-0019	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	8,972.66 2,243.17 3,589.06	
01 71	13 00-0020	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	12,303.76 3,075.94 4,921.50	
01 71 23 Field Engineering (01 71)					
01 71 23 16 Construction Surveying (01 71 23)					
01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.					
01 71	23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,077.59	
01 71	23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,026.44	
01 71	23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings).....	4,345.38	
01 71	23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	6,539.90	
01 71	23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....	8,189.87	
01 71 23 16-0007 Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.					
01 71	23 16-0008	LF	Survey Property Lines On Cleared Land.....	2.43	
01 71	23 16-0009	LF	Survey Property Lines On Slightly Wooded Land.....	2.81	
01 71	23 16-0010	LF	Survey Property Lines On Wooded Land.....	3.30	
01 71 23 16-0011 Survey Monument (01 71 23 16)					
01 71	23 16-0012	EA	3' Precast Survey Monument..... <i>For Owner Furnished Monument, Deduct</i>	166.39 -68.67	
01 71	23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	248.38	
01 71	23 16-0014	EA	Riser Ring For Survey Monument.....	127.43	
01 71	23 16-0015	EA	Adjust Survey Monument Cover To Grade.....	206.02	
01 71 23 16-0016 Facade Surveying (01 71 23 16)					
01 71	23 16-0017	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors).....	6.67	



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Examination and Preparation	01 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0018 Utility Survey <small>(01 71 23 16)</small> Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities.....	5,596.93	
01 71 36 Non-Destructive Concrete Examination <small>(01 71)</small>		
01 71 36 00-0001 Electromagnetic Survey <small>(01 71 36)</small> Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey <small>(01 71 36 00-0001)</small>		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	906.24	
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,359.36	
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	2,718.72	
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys <small>(01 71 36 00-0001)</small>		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	302.08	
	Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	604.16	
	Note: Includes GPS coordinates of located items and reference items.	
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,359.36	
	Note: Includes additions to the owner provided CAD drawing.	
01 74 Cleaning and Waste Management <small>(01 74)</small>		
01 74 13 Progress Cleaning <small>(01 74)</small> Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001 General <small>(01 74 13)</small>		
01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	19.75	
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster	23.14	
	Note: Per CY of debris removed.	
01 74 16 Site Maintenance <small>(01 74)</small>		
01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance <small>(01 74 16)</small> Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002 Parking Lot, Road, And Street Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	19.67	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	23.60	
01 74 16 00-0005 Runway Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	29.51	
01 74 19 Construction Waste Management and Disposal <small>(01 74)</small> Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001 Debris Chutes <small>(01 74 19)</small> Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002 Steel Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	36.55	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	55.00	
01 74 19 00-0005 Plastic Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	14.45	
	<i>For Steel Liner, Add</i> 2.79	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	16.57	
	<i>For Steel Liner, Add</i> 3.21	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	18.67	
	<i>For Steel Liner, Add</i> 3.61	
01 74 19 00-0009 Wood Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute	27.98	
	Note: Includes fabrication and installation.	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 74 19 00-0011	Construction Dumpsters Rental <small>(01 74 19)</small> Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.	
01 74 19 00-0012	EA 10 CY Dumpster (1.5 Ton) "Construction Debris".....585.00 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0013	EA 15 CY Dumpster (2 Ton) "Construction Debris".....584.98 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0014	EA 20 CY Dumpster (3 Ton) "Construction Debris".....635.00 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0015	EA 30 CY Dumpster (4 Ton) "Construction Debris".....684.98 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0016	EA 40 CY Dumpster (6 Ton) "Construction Debris".....765.00 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0017	EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....765.00 Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	
01 74 19 00-0018	EA 15 CY Low-Boy Dumpster Clean Recyclable.....732.21 Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	
01 74 19 00-0019	EA 15 CY Low-Boy Dumpster Mixed Recyclable.....786.85 Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	
01 74 19 00-0020	Concrete Washout Service <small>(01 74 19)</small>	
01 74 19 00-0021	MO Rampless Concrete Washout Bin.....546.47 Note: Includes delivery.	
01 74 19 00-0022	MO Ramped Concrete Washout Bin.....655.77 Note: Includes delivery.	
01 74 19 00-0023	EA Interim Vacuum Service, Concrete Washout Bin.....498.66 Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	
01 74 19 00-0024	EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....1,080.43 Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	
01 74 19 00-0025	Debris Processing Fee <small>(01 74 19)</small>	
01 74 19 00-0026	Material Recycling Fees <small>(01 74 19 00-0025)</small> Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.	
01 74 19 00-0027	CY Drop-Off Asphalt At Recycling Center.....45.04	
01 74 19 00-0028	CY Drop-Off Non Reinforced Concrete At Recycling Center.....60.34	
01 74 19 00-0029	CY Drop-Off Reinforced Concrete At Recycling Center.....90.52	
01 74 19 00-0030	CY Drop-Off Brick Or Block At Recycling Center.....78.45	
01 74 19 00-0031	CY Drop-Off Dirt At Recycling Center.....87.50	
01 74 19 00-0032	CY Drop-Off Dimensional Lumber At Recycling Center.....84.48	
01 74 19 00-0033	Landfill Dump Fees <small>(01 74 19 00-0025)</small> Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.	
01 74 19 00-0034	CY Traditional Building Construction Materials Landfill Dump Fee.....40.16	
01 74 19 00-0035	TON Traditional Building Construction Materials, Landfill Dump Fee.....175.00	
01 74 19 00-0036	CY Trees, Stumps And Brush, Landfill Dump Fee.....48.34	
01 74 19 00-0037	CY Hazardous Materials And Rubbish Landfill Dump Fee.....115.26 Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.	
01 74 19 00-0038	CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....81.90	
01 74 19 00-0039	Hauling <small>(01 74 19)</small> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.	
01 74 19 00-0040	CYM Hauling On Paved Roads, First 15 Miles.....0.90	
01 74 19 00-0041	CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....0.60	
01 74 19 00-0042	CYM Hauling On Unimproved Roads, First 15 Miles.....1.38	
01 74 19 00-0043	CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....1.08	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 74 23 Final Cleaning (01 74)

01 74 23 00-0001 Cleaning Of Glass (01 74 23)

01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces.....26.68

END OF SECTION 01

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

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

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

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

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

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

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

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,083.29

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 32.62

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 80.65

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 137.92

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 85.72

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 7.95

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 110.73

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 9.14

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

Note: Excludes backfill.

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 61.46

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 71.71

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 95.61

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 175.33

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 315.60

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

02 32 13 00-0023 EA Shelby Tube Sampling 43.55

02 32 13 00-0024 EA Penetration Test 35.49

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

02 32 13 00-0026 VLF Boreholes 8.26

02 32 19 Exploratory Excavations ^(02 32)

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

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 161.39

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 645.56

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

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 35.86

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....57.38
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving (02)

02 41 Demolition (02 40)

02 41 13 Selective Site Demolition (02 41)

02 41 13 13 Paving Removal (02 41 13)

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

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

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving.....	6.50
		For >500 To 1,000, Deduct	-0.65
		For >1,000 To 2,500, Deduct	-1.17
		For >2,500 To 5,000, Deduct	-1.69
		For >5,000 To 10,000, Deduct	-2.21
		For >10,000, Deduct	-2.73
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving.....	9.76
		For >500 To 1,000, Deduct	-0.98
		For >1,000 To 2,500, Deduct	-1.76
		For >2,500 To 5,000, Deduct	-2.54
		For >5,000 To 10,000, Deduct	-3.32
		For >10,000, Deduct	-4.10
02 41 13 13-0004	SY	>6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving.....	13.00
		For >500 To 1,000, Deduct	-1.30
		For >1,000 To 2,500, Deduct	-2.34
		For >2,500 To 5,000, Deduct	-3.38
		For >5,000 To 10,000, Deduct	-4.42
		For >10,000, Deduct	-5.46
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving.....	12.96
		For >500 To 1,000, Deduct	-1.30
		For >1,000 To 2,500, Deduct	-2.33
		For >2,500 To 5,000, Deduct	-3.37
		For >5,000 To 10,000, Deduct	-4.41
		For >10,000, Deduct	-5.44
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving.....	18.29
		For >500 To 1,000, Deduct	-1.83
		For >1,000 To 2,500, Deduct	-3.29
		For >2,500 To 5,000, Deduct	-4.76
		For >5,000 To 10,000, Deduct	-6.22
		For >10,000, Deduct	-7.68
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving.....	25.92
		For >500 To 1,000, Deduct	-2.59
		For >1,000 To 2,500, Deduct	-4.67
		For >2,500 To 5,000, Deduct	-6.74
		For >5,000 To 10,000, Deduct	-8.81
		For >10,000, Deduct	-10.89
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	36.59
		For >500 To 1,000, Deduct	-3.66
		For >1,000 To 2,500, Deduct	-6.59
		For >2,500 To 5,000, Deduct	-9.51
		For >5,000 To 10,000, Deduct	-12.44
		For >10,000, Deduct	-15.37
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	47.85
		For >500 To 1,000, Deduct	-4.79
		For >1,000 To 2,500, Deduct	-8.61
		For >2,500 To 5,000, Deduct	-12.44
		For >5,000 To 10,000, Deduct	-16.27
		For >10,000, Deduct	-20.10
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	62.20
		For >500 To 1,000, Deduct	-6.22
		For >1,000 To 2,500, Deduct	-11.20
		For >2,500 To 5,000, Deduct	-16.17
		For >5,000 To 10,000, Deduct	-21.15
		For >10,000, Deduct	-26.12

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

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 13 13-0032 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving.....	1.58
02 41 13 13-0013	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0014 SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.66	
02 41 13 13-0015 SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving.....	1.98	
02 41 13 13-0016 SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving.....	2.51	
02 41 13 13-0017 SF >6" To 8" By Hand, Break-up And Leave In Place Concrete Paving.....	3.32	
02 41 13 13-0018 By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
<small>¹³⁾ Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 13 13-0019 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving.....	14.46	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	4.34	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	7.23	
<i>For >500 To 1,000, Deduct</i>	-1.45	
<i>For >1,000 To 2,500, Deduct</i>	-2.60	
<i>For >2,500 To 5,000, Deduct</i>	-3.76	
<i>For >5,000 To 10,000, Deduct</i>	-4.92	
<i>For >10,000, Deduct</i>	-6.07	
02 41 13 13-0020 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	19.75	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	5.93	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	9.88	
<i>For >500 To 1,000, Deduct</i>	-1.98	
<i>For >1,000 To 2,500, Deduct</i>	-3.56	
<i>For >2,500 To 5,000, Deduct</i>	-5.14	
<i>For >5,000 To 10,000, Deduct</i>	-6.72	
<i>For >10,000, Deduct</i>	-8.30	
02 41 13 13-0021 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.64	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	4.99	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	8.32	
<i>For >500 To 1,000, Deduct</i>	-1.66	
<i>For >1,000 To 2,500, Deduct</i>	-3.00	
<i>For >2,500 To 5,000, Deduct</i>	-4.33	
<i>For >5,000 To 10,000, Deduct</i>	-5.66	
<i>For >10,000, Deduct</i>	-6.99	
02 41 13 13-0022 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	21.77	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.53	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	10.89	
<i>For >500 To 1,000, Deduct</i>	-2.18	
<i>For >1,000 To 2,500, Deduct</i>	-3.92	
<i>For >2,500 To 5,000, Deduct</i>	-5.66	
<i>For >5,000 To 10,000, Deduct</i>	-7.40	
<i>For >10,000, Deduct</i>	-9.14	
02 41 13 13-0023 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	22.08	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.62	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	11.04	
<i>For >500 To 1,000, Deduct</i>	-2.21	
<i>For >1,000 To 2,500, Deduct</i>	-3.97	
<i>For >2,500 To 5,000, Deduct</i>	-5.74	
<i>For >5,000 To 10,000, Deduct</i>	-7.51	
<i>For >10,000, Deduct</i>	-9.27	
02 41 13 13-0024 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	28.61	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	8.58	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	14.31	
<i>For >500 To 1,000, Deduct</i>	-2.86	
<i>For >1,000 To 2,500, Deduct</i>	-5.15	
<i>For >2,500 To 5,000, Deduct</i>	-7.44	
<i>For >5,000 To 10,000, Deduct</i>	-9.73	
<i>For >10,000, Deduct</i>	-12.02	
02 41 13 13-0025 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	47.43	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	14.23	
<i>Note: (Around Existing Structures And Obstructions), Add</i>		
<i>For Elevated Slab, Add</i>	23.72	
<i>For >500 To 1,000, Deduct</i>	-4.74	
<i>For >1,000 To 2,500, Deduct</i>	-8.54	
<i>For >2,500 To 5,000, Deduct</i>	-12.33	
<i>For >5,000 To 10,000, Deduct</i>	-16.13	
<i>For >10,000, Deduct</i>	-19.92	
02 41 13 13-0026 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	23.95	
<i>For Elevated Slab, Add</i>	11.98	
<i>For >500 To 1,000, Deduct</i>	-2.40	
<i>For >1,000 To 2,500, Deduct</i>	-4.31	
<i>For >2,500 To 5,000, Deduct</i>	-6.23	
<i>For >5,000 To 10,000, Deduct</i>	-8.14	
<i>For >10,000, Deduct</i>	-10.06	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0027 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	30.79	
For Elevated Slab, Add	15.40	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,500, Deduct	-5.54	
For >2,500 To 5,000, Deduct	-8.01	
For >5,000 To 10,000, Deduct	-10.47	
For >10,000, Deduct	-12.93	
02 41 13 13-0028 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	55.05	
For Elevated Slab, Add	27.53	
For >500 To 1,000, Deduct	-5.51	
For >1,000 To 2,500, Deduct	-9.91	
For >2,500 To 5,000, Deduct	-14.31	
For >5,000 To 10,000, Deduct	-18.72	
For >10,000, Deduct	-23.12	
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	71.84	
For Elevated Slab, Add	35.92	
For >500 To 1,000, Deduct	-7.18	
For >1,000 To 2,500, Deduct	-12.93	
For >2,500 To 5,000, Deduct	-18.68	
For >5,000 To 10,000, Deduct	-24.43	
For >10,000, Deduct	-30.17	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	93.93	
For Elevated Slab, Add	46.97	
For >500 To 1,000, Deduct	-9.39	
For >1,000 To 2,500, Deduct	-16.91	
For >2,500 To 5,000, Deduct	-24.42	
For >5,000 To 10,000, Deduct	-31.94	
For >10,000, Deduct	-39.45	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	113.98	
For Elevated Slab, Add	56.99	
For >500 To 1,000, Deduct	-11.40	
For >1,000 To 2,500, Deduct	-20.52	
For >2,500 To 5,000, Deduct	-29.63	
For >5,000 To 10,000, Deduct	-38.75	
For >10,000, Deduct	-47.87	
02 41 13 13-0032 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.53	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	4.65	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.04	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.41	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.10	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	7.81	
02 41 13 13-0039 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.18	
02 41 13 13-0040 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	8.52	
02 41 13 13-0041 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	10.93	
02 41 13 13-0042 Grind Concrete (02 41 13 13)		
02 41 13 13-0043 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	230.77	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	34.62	
For >1" To 1-1/2" Depth Of Grinding, Add	57.69	
For Up To 5, Add	46.15	
For >5 To 10, Add	23.08	
For >10 To 20, Add	23.08	
For >20 To 50, Deduct	-23.08	
For >50 To 250, Deduct	-34.62	
For >250, Deduct	-46.15	
For Sidewalks >5', Add	23.08	
For Up To 12" Additional Feathering Per Side, Add	23.08	
02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15)		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	6.95	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	8.68	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	11.61	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	23.12	
02 41 16 Structure Demolition (02 41)		
02 41 16 13 Building Demolition (02 41 16)		



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0001 Building Interior Demolition <small>(02 41 16 13)</small>		
<p>Note: Guttled and placed in truck or dumpsters. Based on overall floor area including space under demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminants or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.</p>		
02 41 16 13-0002 GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.09	
02 41 16 13-0003 GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	10.73	
02 41 16 13-0004 GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	8.78	
02 41 16 13-0005 GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.80	
02 41 16 13-0006 Commercial And Residential Structures Demolition <small>(02 41 16 13)</small>		
<p>Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.</p>		
02 41 16 13-0007 Steel Framed Building Demolition <small>(02 41 16 13-0006)</small>		
<p>Note: Includes masonry partitions and concrete decks.</p>		
02 41 16 13-0008 CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition	67.12	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-5.03	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-10.07	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-15.10	
For Up To 500, Add	20.14	
For >500 To 1,000, Add	13.42	
For >1,000 To 2,000, Add	6.71	
For Volume Of Area Within 15' To An Adjacent Building, Add	22.15	
For No Interior Partitions, Deduct	-16.78	
02 41 16 13-0009 CCF By Machine, Steel Framed Building Demolition	42.06	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.15	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.31	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.46	
For Up To 500, Add	12.62	
For >500 To 1,000, Add	8.41	
For >1,000 To 2,000, Add	4.21	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.31	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	10.52	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	14.72	
For Volume Of Area Within 15' To An Adjacent Building, Add	13.88	
For No Interior Partitions, Deduct	-10.52	
02 41 16 13-0010 Reinforced Concrete Building Demolition <small>(02 41 16 13-0006)</small>		
02 41 16 13-0011 CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition.....	84.22	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-6.32	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-12.63	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-18.95	
For Up To 500, Add	25.27	
For >500 To 1,000, Add	16.84	
For >1,000 To 2,000, Add	8.42	
For Volume Of Area Within 15' To An Adjacent Building, Add	27.79	
For No Interior Partitions, Deduct	-21.06	
02 41 16 13-0012 CCF By Machine, Reinforced Concrete Building Demolition.....	55.53	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.16	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.33	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.49	
For Up To 500, Add	16.66	
For >500 To 1,000, Add	11.11	
For >1,000 To 2,000, Add	5.55	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	8.33	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	13.88	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	19.44	
For Volume Of Area Within 15' To An Adjacent Building, Add	18.32	
For No Interior Partitions, Deduct	-13.88	
02 41 16 13-0013 Masonry Construction Building Demolition <small>(02 41 16 13-0006)</small>		
02 41 16 13-0014 CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition	59.18	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.44	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.88	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-13.32	
For Up To 500, Add	17.75	
For >500 To 1,000, Add	11.84	
For >1,000 To 2,000, Add	5.92	
For Volume Of Area Within 15' To An Adjacent Building, Add	19.53	
For No Interior Partitions, Deduct	-14.80	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	37.73	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.83	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.66	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-8.49	
For Up To 500, Add	11.32	
For >500 To 1,000, Add	7.55	
For >1,000 To 2,000, Add	3.77	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.66	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	9.43	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	13.21	
For Volume Of Area Within 15' To An Adjacent Building, Add	12.45	
For No Interior Partitions, Deduct	-9.43	
02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition	51.43	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.86	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-7.71	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-11.57	
For Up To 500, Add	15.43	
For >500 To 1,000, Add	10.29	
For >1,000 To 2,000, Add	5.14	
For Volume Of Area Within 15' To An Adjacent Building, Add	16.97	
For No Interior Partitions, Deduct	-12.86	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition	32.30	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.42	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-4.85	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-7.27	
For Up To 500, Add	9.69	
For >500 To 1,000, Add	6.46	
For >1,000 To 2,000, Add	3.23	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	4.85	
For Volume Of Area Within 15' To An Adjacent Building, Add	10.66	
For No Interior Partitions, Deduct	-8.08	
02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)		
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off	8.67	
For Up To 500, Add	2.60	
For >500 To 1,000, Add	1.73	
For >1,000 To 2,000, Add	0.87	
02 41 16 13-0021 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork.		
02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0023 CF Non Reinforced Concrete Foundation Demolition.....	13.38	
For >135 To 405, Deduct	-1.17	
For >405 To 810, Deduct	-2.34	
For >810 To 2025, Deduct	-3.35	
For >2025, Deduct	-5.35	
02 41 16 13-0024 CF Reinforced Concrete Foundation Demolition	16.06	
For >135 To 405, Deduct	-1.41	
For >405 To 810, Deduct	-2.81	
For >810 To 2025, Deduct	-4.02	
For >2025, Deduct	-6.42	
02 41 16 13-0025 Concrete Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0026 SF 4" Thick Non Reinforced Concrete Foundation Wall Demolition.....	5.74	
For >500 To 2,000, Deduct	-0.43	
For >2,000 To 6,000, Deduct	-1.15	
For >6,000 To 8,000, Deduct	-2.01	
For >8,000, Deduct	-3.16	
02 41 16 13-0027 SF 6" Thick Non Reinforced Concrete Foundation Wall Demolition	7.65	
For >500 To 2,000, Deduct	-0.57	
For >2,000 To 6,000, Deduct	-1.53	
For >6,000 To 8,000, Deduct	-2.68	
For >8,000, Deduct	-4.21	
02 41 16 13-0028 SF 8" Thick Non Reinforced Concrete Foundation Wall Demolition	9.56	
For >500 To 2,000, Deduct	-0.72	
For >2,000 To 6,000, Deduct	-1.91	
For >6,000 To 8,000, Deduct	-3.35	
For >8,000, Deduct	-5.26	
02 41 16 13-0029 SF 10" Thick Non Reinforced Concrete Foundation Wall Demolition	11.47	
For >500 To 2,000, Deduct	-0.86	
For >2,000 To 6,000, Deduct	-2.29	
For >6,000 To 8,000, Deduct	-4.01	
For >8,000, Deduct	-6.31	
02 41 16 13-0030 SF 12" Thick Non Reinforced Concrete Foundation Wall Demolition	13.38	
For >500 To 2,000, Deduct	-1.00	
For >2,000 To 6,000, Deduct	-2.68	
For >6,000 To 8,000, Deduct	-4.68	
For >8,000, Deduct	-7.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0031 SF 16" Thick Non Reinforced Concrete Foundation Wall Demolition.....	15.29	
<i>For >500 To 2,000, Deduct</i>	-1.15	
<i>For >2,000 To 6,000, Deduct</i>	-3.06	
<i>For >6,000 To 8,000, Deduct</i>	-5.35	
<i>For >8,000, Deduct</i>	-8.41	
02 41 16 13-0032 SF 4" Thick Reinforced Concrete Foundation Wall Demolition	6.88	
<i>For >500 To 2,000, Deduct</i>	-0.52	
<i>For >2,000 To 6,000, Deduct</i>	-1.38	
<i>For >6,000 To 8,000, Deduct</i>	-2.41	
<i>For >8,000, Deduct</i>	-3.78	
02 41 16 13-0033 SF 6" Thick Reinforced Concrete Foundation Wall Demolition	9.18	
<i>For >500 To 2,000, Deduct</i>	-0.69	
<i>For >2,000 To 6,000, Deduct</i>	-1.84	
<i>For >6,000 To 8,000, Deduct</i>	-3.21	
<i>For >8,000, Deduct</i>	-5.05	
02 41 16 13-0034 SF 8" Thick Reinforced Concrete Foundation Wall Demolition	11.47	
<i>For >500 To 2,000, Deduct</i>	-0.86	
<i>For >2,000 To 6,000, Deduct</i>	-2.29	
<i>For >6,000 To 8,000, Deduct</i>	-4.01	
<i>For >8,000, Deduct</i>	-6.31	
02 41 16 13-0035 SF 10" Thick Reinforced Concrete Foundation Wall Demolition	13.57	
<i>For >500 To 2,000, Deduct</i>	-1.02	
<i>For >2,000 To 6,000, Deduct</i>	-2.71	
<i>For >6,000 To 8,000, Deduct</i>	-4.75	
<i>For >8,000, Deduct</i>	-7.46	
02 41 16 13-0036 SF 12" Thick Reinforced Concrete Foundation Wall Demolition	16.06	
<i>For >500 To 2,000, Deduct</i>	-1.20	
<i>For >2,000 To 6,000, Deduct</i>	-3.21	
<i>For >6,000 To 8,000, Deduct</i>	-5.62	
<i>For >8,000, Deduct</i>	-8.83	
02 41 16 13-0037 SF 16" Thick Reinforced Concrete Foundation Wall Demolition	18.35	
<i>For >500 To 2,000, Deduct</i>	-1.38	
<i>For >2,000 To 6,000, Deduct</i>	-3.67	
<i>For >6,000 To 8,000, Deduct</i>	-6.42	
<i>For >8,000, Deduct</i>	-10.09	
02 41 16 13-0038 Concrete Block Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0039 SF 4" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.21	
<i>For >500 To 2,000, Deduct</i>	-0.32	
<i>For >2,000 To 6,000, Deduct</i>	-0.84	
<i>For >6,000 To 8,000, Deduct</i>	-1.47	
<i>For >8,000, Deduct</i>	-2.32	
02 41 16 13-0040 SF 6" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.50	
<i>For >500 To 2,000, Deduct</i>	-0.34	
<i>For >2,000 To 6,000, Deduct</i>	-0.90	
<i>For >6,000 To 8,000, Deduct</i>	-1.58	
<i>For >8,000, Deduct</i>	-2.48	
02 41 16 13-0041 SF 8" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.07	
<i>For >500 To 2,000, Deduct</i>	-0.38	
<i>For >2,000 To 6,000, Deduct</i>	-1.01	
<i>For >6,000 To 8,000, Deduct</i>	-1.77	
<i>For >8,000, Deduct</i>	-2.79	
02 41 16 13-0042 SF 10" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.84	
<i>For >500 To 2,000, Deduct</i>	-0.44	
<i>For >2,000 To 6,000, Deduct</i>	-1.17	
<i>For >6,000 To 8,000, Deduct</i>	-2.04	
<i>For >8,000, Deduct</i>	-3.21	
02 41 16 13-0043 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.50	
<i>For >500 To 2,000, Deduct</i>	-0.49	
<i>For >2,000 To 6,000, Deduct</i>	-1.30	
<i>For >6,000 To 8,000, Deduct</i>	-2.28	
<i>For >8,000, Deduct</i>	-3.58	
02 41 16 13-0044 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition	8.13	
<i>For >500 To 2,000, Deduct</i>	-0.61	
<i>For >2,000 To 6,000, Deduct</i>	-1.63	
<i>For >6,000 To 8,000, Deduct</i>	-2.85	
<i>For >8,000, Deduct</i>	-4.47	
02 41 16 13-0045 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.05	
<i>For >500 To 2,000, Deduct</i>	-0.38	
<i>For >2,000 To 6,000, Deduct</i>	-1.01	
<i>For >6,000 To 8,000, Deduct</i>	-1.77	
<i>For >8,000, Deduct</i>	-2.78	
02 41 16 13-0046 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.40	
<i>For >500 To 2,000, Deduct</i>	-0.41	
<i>For >2,000 To 6,000, Deduct</i>	-1.08	
<i>For >6,000 To 8,000, Deduct</i>	-1.89	
<i>For >8,000, Deduct</i>	-2.97	
02 41 16 13-0047 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition.....	6.08	
<i>For >500 To 2,000, Deduct</i>	-0.46	
<i>For >2,000 To 6,000, Deduct</i>	-1.22	
<i>For >6,000 To 8,000, Deduct</i>	-2.13	
<i>For >8,000, Deduct</i>	-3.34	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0048 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition.....	7.00	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.45	
For >8,000, Deduct	-3.85	
02 41 16 13-0049 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition.....	7.80	
For >500 To 2,000, Deduct	-0.59	
For >2,000 To 6,000, Deduct	-1.56	
For >6,000 To 8,000, Deduct	-2.73	
For >8,000, Deduct	-4.29	
02 41 16 13-0050 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition.....	9.75	
For >500 To 2,000, Deduct	-0.73	
For >2,000 To 6,000, Deduct	-1.95	
For >6,000 To 8,000, Deduct	-3.41	
For >8,000, Deduct	-5.36	
02 41 16 13-0051 Brick Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0052 SF 4" Thick Brick Foundation Wall Demolition	4.21	
For >500 To 2,000, Deduct	-0.32	
For >2,000 To 6,000, Deduct	-0.84	
For >6,000 To 8,000, Deduct	-1.47	
For >8,000, Deduct	-2.32	
02 41 16 13-0053 SF 6" Thick Brick Foundation Wall Demolition	4.50	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.90	
For >6,000 To 8,000, Deduct	-1.58	
For >8,000, Deduct	-2.48	
02 41 16 13-0054 SF 8" Thick Brick Foundation Wall Demolition	5.07	
For >500 To 2,000, Deduct	-0.38	
For >2,000 To 6,000, Deduct	-1.01	
For >6,000 To 8,000, Deduct	-1.77	
For >8,000, Deduct	-2.79	
02 41 16 13-0055 SF 10" Thick Brick Foundation Wall Demolition	5.84	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.17	
For >6,000 To 8,000, Deduct	-2.04	
For >8,000, Deduct	-3.21	
02 41 16 13-0056 SF 12" Thick Brick Foundation Wall Demolition	6.50	
For >500 To 2,000, Deduct	-0.49	
For >2,000 To 6,000, Deduct	-1.30	
For >6,000 To 8,000, Deduct	-2.28	
For >8,000, Deduct	-3.58	
02 41 16 13-0057 SF 16" Thick Brick Foundation Wall Demolition	8.13	
For >500 To 2,000, Deduct	-0.61	
For >2,000 To 6,000, Deduct	-1.63	
For >6,000 To 8,000, Deduct	-2.85	
For >8,000, Deduct	-4.47	
02 41 16 13-0058 Stone Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0059 CF Stone Footing Or Foundation Wall Demolition.....	13.38	
For >135 To 405, Deduct	-1.17	
For >405 To 810, Deduct	-2.34	
For >810 To 2025, Deduct	-3.35	
For >2025, Deduct	-5.35	
02 41 16 13-0060 Other Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0061 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition	13.97	
Note: Includes excavation.		
For >135 To 405, Deduct	-1.22	
For >405 To 810, Deduct	-2.44	
For >810 To 2025, Deduct	-3.49	
For >2025, Deduct	-5.59	
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Saw Cutting (02 41 19 13)		
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Bituminous Paving Up To 4" Depth, Saw Cut.....	2.01	
For Each Additional Pass (Depth To 3"), Add	0.78	
For >250, Deduct	-0.19	
02 41 19 13-0003 LF Brick Masonry Up To 4" Depth, Saw Cut.....	7.62	
For Each Additional Pass (Depth To 3"), Add	3.02	
For >250, Deduct	-0.75	
02 41 19 13-0004 LF Concrete Block Up To 4" Depth, Saw Cut.....	6.89	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0005 LF Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.29	
For Each Additional Pass (Depth To 3"), Add	0.89	
For >250, Deduct	-0.22	
02 41 19 13-0006 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.03	
For Each Additional Pass (Depth To 3"), Add	1.18	
For >250, Deduct	-0.29	
02 41 19 13-0007 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.04	
For Each Additional Pass (Depth To 3"), Add	1.98	
For >250, Deduct	-0.49	
02 41 19 13-0008 LF Plain Concrete Walls Up To 4" Depth, Saw Cut	9.75	
For Each Additional Pass (Depth To 3"), Add	3.87	
For >250, Deduct	-0.97	
02 41 19 13-0009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	13.10	
For Each Additional Pass (Depth To 3"), Add	5.20	
For >250, Deduct	-1.30	
02 41 19 13-0010 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	2.63	
For Each Additional Pass (Depth To 3"), Add	0.95	
For >250, Deduct	-0.23	
02 41 19 13-0011 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	6.91	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	
02 41 19 13-0012 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	6.91	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	
02 41 19 13-0013 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	6.91	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	
02 41 19 13-0014 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	6.91	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	
02 41 19 13-0015 EA Saw Cut Minimum Charge.....	935.84	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0016 Torch Cutting (02 41 19 13)		
Note: Includes grinding edge		
02 41 19 13-0017 LF Up To 1/2", Torch Cut Steel Plate.....	2.87	
02 41 19 13-0018 LF >1/2" To 1" Thick, Torch Cut Steel Plate	5.74	
02 41 19 13-0019 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	8.61	
02 41 19 13-0020 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	11.48	
02 41 19 13-0021 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	14.36	
02 41 19 13-0022 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	17.23	
02 41 19 13-0023 EA Torch Cutting Minimum Charge.....	907.59	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0024 Drilling In Existing Materials (02 41 19 13)		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0025 Concrete Core Drilling (02 41 19 13-0024)		
02 41 19 13-0026 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	37.23	
For Horizontal Cores, Add	7.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.81	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	41.33	
For Horizontal Cores, Add	8.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.45	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	45.91	
For Horizontal Cores, Add	9.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.28	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	65.57	
For Horizontal Cores, Add	13.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.11	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	87.87	
For Horizontal Cores, Add	17.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.99	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	98.40	
For Horizontal Cores, Add	19.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.17	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	157.34	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	196.76	
For Horizontal Cores, Add	39.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.34	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	229.60	
For Horizontal Cores, Add	45.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.40	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	262.40	
For Horizontal Cores, Add	52.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.44	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0037	EA		Drill 18" Diameter Core In Up To 4" Concrete.....	295.41	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0038			>4" To 6" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0039	EA		Drill 1" Diameter Core In >4" To 6" Concrete.....	53.19	
			<i>For Horizontal Cores, Add</i>	10.57	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.14	
02 41 19 13-0040	EA		Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	59.08	
			<i>For Horizontal Cores, Add</i>	11.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.50	
02 41 19 13-0041	EA		Drill 2" Diameter Core In >4" To 6" Concrete.....	65.60	
			<i>For Horizontal Cores, Add</i>	13.05	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.11	
02 41 19 13-0042	EA		Drill 3" Diameter Core In >4" To 6" Concrete.....	78.79	
			<i>For Horizontal Cores, Add</i>	15.67	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0043	EA		Drill 4" Diameter Core In >4" To 6" Concrete.....	98.51	
			<i>For Horizontal Cores, Add</i>	19.58	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0044	EA		Drill 6" Diameter Core In >4" To 6" Concrete.....	131.31	
			<i>For Horizontal Cores, Add</i>	26.11	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.23	
02 41 19 13-0045	EA		Drill 8" Diameter Core In >4" To 6" Concrete.....	196.86	
			<i>For Horizontal Cores, Add</i>	39.17	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.34	
02 41 19 13-0046	EA		Drill 10" Diameter Core In >4" To 6" Concrete.....	229.87	
			<i>For Horizontal Cores, Add</i>	45.70	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	91.40	
02 41 19 13-0047	EA		Drill 12" Diameter Core In >4" To 6" Concrete.....	262.73	
			<i>For Horizontal Cores, Add</i>	52.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0048	EA		Drill 14" Diameter Core In >4" To 6" Concrete.....	295.73	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0049	EA		Drill 18" Diameter Core In >4" To 6" Concrete.....	328.96	
			<i>For Horizontal Cores, Add</i>	65.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.56	
02 41 19 13-0050			>6" To 8" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0051	EA		Drill 1" Diameter Core In >6" To 8" Concrete.....	58.61	
			<i>For Horizontal Cores, Add</i>	11.63	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.27	
02 41 19 13-0052	EA		Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	65.07	
			<i>For Horizontal Cores, Add</i>	12.93	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.85	
02 41 19 13-0053	EA		Drill 2" Diameter Core In >6" To 8" Concrete.....	72.25	
			<i>For Horizontal Cores, Add</i>	14.36	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.72	
02 41 19 13-0054	EA		Drill 3" Diameter Core In >6" To 8" Concrete.....	85.48	
			<i>For Horizontal Cores, Add</i>	16.97	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.95	
02 41 19 13-0055	EA		Drill 4" Diameter Core In >6" To 8" Concrete.....	111.77	
			<i>For Horizontal Cores, Add</i>	22.19	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.39	
02 41 19 13-0056	EA		Drill 6" Diameter Core In >6" To 8" Concrete.....	157.67	
			<i>For Horizontal Cores, Add</i>	31.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0057	EA		Drill 8" Diameter Core In >6" To 8" Concrete.....	262.46	
			<i>For Horizontal Cores, Add</i>	52.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0058	EA		Drill 10" Diameter Core In >6" To 8" Concrete.....	295.55	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0059	EA		Drill 12" Diameter Core In >6" To 8" Concrete.....	328.56	
			<i>For Horizontal Cores, Add</i>	65.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.56	
02 41 19 13-0060	EA		Drill 14" Diameter Core In >6" To 8" Concrete.....	361.65	
			<i>For Horizontal Cores, Add</i>	71.80	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0061	EA		Drill 18" Diameter Core In >6" To 8" Concrete.....	395.16	
			<i>For Horizontal Cores, Add</i>	78.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.68	
02 41 19 13-0062			>8" To 10" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0063	EA		Drill 1" Diameter Core In >8" To 10" Concrete.....	69.30	
			<i>For Horizontal Cores, Add</i>	13.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.50	
02 41 19 13-0064	EA		Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	76.94	
			<i>For Horizontal Cores, Add</i>	15.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0065 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	85.42	
<i>For Horizontal Cores, Add</i>	16.97	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.94	
02 41 19 13-0066 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	98.69	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0067 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	111.97	
<i>For Horizontal Cores, Add</i>	22.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.39	
02 41 19 13-0068 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	157.92	
<i>For Horizontal Cores, Add</i>	31.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0069 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	262.80	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0070 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	296.00	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0071 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	329.04	
<i>For Horizontal Cores, Add</i>	65.27	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.54	
02 41 19 13-0072 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	362.33	
<i>For Horizontal Cores, Add</i>	71.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0073 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	395.96	
<i>For Horizontal Cores, Add</i>	78.32	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.64	
02 41 19 13-0074 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0075 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	74.71	
<i>For Horizontal Cores, Add</i>	14.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.61	
02 41 19 13-0076 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	82.94	
<i>For Horizontal Cores, Add</i>	16.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.90	
02 41 19 13-0077 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	92.08	
<i>For Horizontal Cores, Add</i>	18.28	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.56	
02 41 19 13-0078 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	98.85	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0079 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	131.78	
<i>For Horizontal Cores, Add</i>	26.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.23	
02 41 19 13-0080 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	171.24	
<i>For Horizontal Cores, Add</i>	33.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.90	
02 41 19 13-0081 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	276.22	
<i>For Horizontal Cores, Add</i>	54.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	109.68	
02 41 19 13-0082 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	296.45	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0083 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	342.73	
<i>For Horizontal Cores, Add</i>	67.90	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.80	
02 41 19 13-0084 >12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0085 IN Drill 1" Diameter Core In >12" Concrete.....	9.11	
<i>For Horizontal Cores, Add</i>	1.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.62	
02 41 19 13-0086 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	10.12	
<i>For Horizontal Cores, Add</i>	2.01	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.02	
02 41 19 13-0087 IN Drill 2" Diameter Core In >12" Concrete.....	11.23	
<i>For Horizontal Cores, Add</i>	2.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.47	
02 41 19 13-0088 IN Drill 3" Diameter Core In >12" Concrete.....	12.32	
<i>For Horizontal Cores, Add</i>	2.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.90	
02 41 19 13-0089 IN Drill 4" Diameter Core In >12" Concrete.....	16.42	
<i>For Horizontal Cores, Add</i>	3.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.53	
02 41 19 13-0090 IN Drill 6" Diameter Core In >12" Concrete.....	21.35	
<i>For Horizontal Cores, Add</i>	4.25	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.49	
02 41 19 13-0091 IN Drill 8" Diameter Core In >12" Concrete.....	34.47	
<i>For Horizontal Cores, Add</i>	6.86	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.72	
02 41 19 13-0092 IN Drill 10" Diameter Core In >12" Concrete.....	37.10	
<i>For Horizontal Cores, Add</i>	7.37	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.75	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0093 IN Drill 12" Diameter Core In >12" Concrete	42.73	
For Horizontal Cores, Add	8.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.98	
02 41 19 13-0094 Brick/Concrete Block Core Drilling (02 41 19 13-0024)		
02 41 19 13-0095 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0096 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	29.83	
For Horizontal Cores, Add	5.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.85	
02 41 19 13-0097 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	33.10	
For Horizontal Cores, Add	6.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.16	
02 41 19 13-0098 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	36.77	
For Horizontal Cores, Add	7.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.62	
02 41 19 13-0099 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	52.52	
For Horizontal Cores, Add	10.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0100 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	70.37	
For Horizontal Cores, Add	14.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.99	
02 41 19 13-0101 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	78.82	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0102 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	126.01	
For Horizontal Cores, Add	25.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	50.14	
02 41 19 13-0103 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	157.59	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0104 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	183.90	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.12	
02 41 19 13-0105 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	210.18	
For Horizontal Cores, Add	41.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.56	
02 41 19 13-0106 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	236.65	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0107 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0108 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	42.62	
For Horizontal Cores, Add	8.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.92	
02 41 19 13-0109 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	47.32	
For Horizontal Cores, Add	9.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.80	
02 41 19 13-0110 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	52.55	
For Horizontal Cores, Add	10.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0111 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	63.12	
For Horizontal Cores, Add	12.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.07	
02 41 19 13-0112 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	78.93	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0113 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	105.20	
For Horizontal Cores, Add	20.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.78	
02 41 19 13-0114 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	157.69	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0115 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	184.17	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.12	
02 41 19 13-0116 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	210.51	
For Horizontal Cores, Add	41.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.56	
02 41 19 13-0117 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	236.97	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0118 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	263.69	
For Horizontal Cores, Add	52.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.45	
02 41 19 13-0119 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0120 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	46.97	
For Horizontal Cores, Add	9.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	52.14	
<i>For Horizontal Cores, Add</i>	10.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.68	
02 41 19 13-0122 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	57.89	
<i>For Horizontal Cores, Add</i>	11.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.98	
02 41 19 13-0123 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	68.51	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0124 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	89.59	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0125 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	126.34	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0126 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	210.24	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0127 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block.....	236.79	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0128 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block.....	263.29	
<i>For Horizontal Cores, Add</i>	52.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.45	
02 41 19 13-0129 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block.....	289.85	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0130 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block.....	316.82	
<i>For Horizontal Cores, Add</i>	62.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.34	
02 41 19 13-0131 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0132 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block.....	55.55	
<i>For Horizontal Cores, Add</i>	11.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.00	
02 41 19 13-0133 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block.....	61.66	
<i>For Horizontal Cores, Add</i>	12.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.44	
02 41 19 13-0134 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block.....	68.46	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0135 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block.....	79.11	
<i>For Horizontal Cores, Add</i>	15.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0136 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block.....	89.79	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0137 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block.....	126.59	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0138 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block.....	210.58	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block.....	237.24	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block.....	263.78	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.43	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block.....	290.53	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block.....	317.64	
<i>For Horizontal Cores, Add</i>	62.66	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.32	
02 41 19 13-0143 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block.....	59.91	
<i>For Horizontal Cores, Add</i>	11.85	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.69	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block.....	66.48	
<i>For Horizontal Cores, Add</i>	13.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.32	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block.....	73.80	
<i>For Horizontal Cores, Add</i>	14.62	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.25	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block.....	79.27	
<i>For Horizontal Cores, Add</i>	15.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block.....	105.67	
<i>For Horizontal Cores, Add</i>	20.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.78	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	137.28	
For Horizontal Cores, Add	27.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.32	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	221.37	
For Horizontal Cores, Add	43.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.74	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	237.69	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	274.84	
For Horizontal Cores, Add	54.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.64	
02 41 19 13-0153 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block.....	7.30	
For Horizontal Cores, Add	1.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	2.90	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block.....	8.10	
For Horizontal Cores, Add	1.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.22	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block.....	9.00	
For Horizontal Cores, Add	1.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.58	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block.....	9.87	
For Horizontal Cores, Add	1.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.92	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block.....	13.15	
For Horizontal Cores, Add	2.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.22	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block.....	17.11	
For Horizontal Cores, Add	3.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.80	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block.....	27.62	
For Horizontal Cores, Add	5.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.98	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block.....	29.73	
For Horizontal Cores, Add	5.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.80	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block.....	34.24	
For Horizontal Cores, Add	6.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.59	
02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)		
02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt.....	17.92	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt.....	22.40	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt.....	28.00	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt.....	34.73	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt.....	43.70	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt.....	54.91	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt.....	68.36	
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt.....	85.15	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt.....	106.43	
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0175 EA Drill 1" Diameter Core In >2" To 3" Asphalt.....	22.40	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt.....	29.11	
02 41 19 13-0177 EA Drill 2" Diameter Core In >2" To 3" Asphalt.....	35.84	
02 41 19 13-0178 EA Drill 3" Diameter Core In >2" To 3" Asphalt.....	44.80	
02 41 19 13-0179 EA Drill 4" Diameter Core In >2" To 3" Asphalt.....	56.00	
02 41 19 13-0180 EA Drill 6" Diameter Core In >2" To 3" Asphalt.....	70.57	
02 41 19 13-0181 EA Drill 8" Diameter Core In >2" To 3" Asphalt.....	87.38	
02 41 19 13-0182 EA Drill 10" Diameter Core In >2" To 3" Asphalt.....	109.77	
02 41 19 13-0183 EA Drill 12" Diameter Core In >2" To 3" Asphalt.....	136.65	
02 41 19 13-0184 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0185 EA Drill 1" Diameter Core In >3" To 4" Asphalt.....	29.12	
02 41 19 13-0186 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	36.96	
02 41 19 13-0187 EA Drill 2" Diameter Core In >3" To 4" Asphalt.....	45.92	
02 41 19 13-0188 EA Drill 3" Diameter Core In >3" To 4" Asphalt.....	57.13	
02 41 19 13-0189 EA Drill 4" Diameter Core In >3" To 4" Asphalt.....	71.70	
02 41 19 13-0190 EA Drill 6" Diameter Core In >3" To 4" Asphalt.....	89.63	
02 41 19 13-0191 EA Drill 8" Diameter Core In >3" To 4" Asphalt.....	112.07	
02 41 19 13-0192 EA Drill 10" Diameter Core In >3" To 4" Asphalt.....	140.05	
02 41 19 13-0193 EA Drill 12" Diameter Core In >3" To 4" Asphalt.....	174.77	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0194				>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0195	EA			Drill 1" Diameter Core In >4" To 6" Asphalt	38.09	
02 41 19 13-0196	EA			Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	47.06	
02 41 19 13-0197	EA			Drill 2" Diameter Core In >4" To 6" Asphalt	58.26	
02 41 19 13-0198	EA			Drill 3" Diameter Core In >4" To 6" Asphalt	73.96	
02 41 19 13-0199	EA			Drill 4" Diameter Core In >4" To 6" Asphalt	91.93	
02 41 19 13-0200	EA			Drill 6" Diameter Core In >4" To 6" Asphalt	114.35	
02 41 19 13-0201	EA			Drill 8" Diameter Core In >4" To 6" Asphalt	143.52	
02 41 19 13-0202	EA			Drill 10" Diameter Core In >4" To 6" Asphalt	179.36	
02 41 19 13-0203	EA			Drill 12" Diameter Core In >4" To 6" Asphalt	224.18	
02 41 19 13-0204				Manhole Core Drilling (02 41 19 13-0024)		
02 41 19 13-0205	EA			Drill 4" Diameter Core In 6" Brick Manhole	196.25	
02 41 19 13-0206	EA			Drill 5" Diameter Core In 6" Brick Manhole	224.28	
02 41 19 13-0207	EA			Drill 6" Diameter Core In 6" Brick Manhole	261.60	
02 41 19 13-0208	EA			Drill 8" Diameter Core In 6" Brick Manhole	392.37	
02 41 19 13-0209	EA			Drill 2" Diameter Core In 8" Concrete Manhole	263.02	
02 41 19 13-0210	EA			Drill 3" Diameter Core In 8" Concrete Manhole	279.96	
02 41 19 13-0211	EA			Drill 4" Diameter Core In 8" Concrete Manhole	308.08	
02 41 19 13-0212	EA			Drill 5" Diameter Core In 8" Concrete Manhole	330.52	
02 41 19 13-0213	EA			Drill 6" Diameter Core In 8" Concrete Manhole	392.07	
02 41 19 13-0214	EA			Drill 8" Diameter Core In 8" Concrete Manhole	560.05	
02 41 19 13-0215	EA			Drill 2" Diameter Core In Fiberglass Manhole	26.12	
02 41 19 13-0216	EA			Drill 3" Diameter Core In Fiberglass Manhole	30.15	
02 41 19 13-0217	EA			Drill 4" Diameter Core In Fiberglass Manhole	32.66	
02 41 19 13-0218	EA			Drill 5" Diameter Core In Fiberglass Manhole	35.63	
02 41 19 13-0219	EA			Drill 6" Diameter Core In Fiberglass Manhole	39.20	
02 41 19 13-0220	EA			Drill 8" Diameter Core In Fiberglass Manhole	43.56	
02 41 19 13-0221				Drilling In Concrete Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0222	IN			1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.02	
02 41 19 13-0223	IN			3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.13	
02 41 19 13-0224	IN			1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.28	
02 41 19 13-0225	IN			5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.43	
02 41 19 13-0226	IN			3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.67	
02 41 19 13-0227	IN			7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.90	
02 41 19 13-0228	IN			1" Diameter Drilling In Concrete Per Inch Of Depth	3.05	
02 41 19 13-0229	IN			1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.35	
02 41 19 13-0230	IN			1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.81	
02 41 19 13-0231				Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0232	IN			1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.69	
02 41 19 13-0233	IN			3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.77	
02 41 19 13-0234	IN			1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90	
02 41 19 13-0235	IN			5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.02	
02 41 19 13-0236	IN			3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.22	
02 41 19 13-0237	IN			7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.42	
02 41 19 13-0238	IN			1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.54	
02 41 19 13-0239	IN			1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.80	
02 41 19 13-0240	IN			1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.47	
02 41 19 13-0241				Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0242	IN			1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.84	
02 41 19 13-0243	IN			3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.89	
02 41 19 13-0244	IN			1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.95	
02 41 19 13-0245	IN			5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.01	
02 41 19 13-0246	IN			3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.11	
02 41 19 13-0247	IN			7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.20	
02 41 19 13-0248	IN			1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.27	
02 41 19 13-0249	IN			1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.40	
02 41 19 13-0250	IN			1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.64	
02 41 19 13-0251				Limestone Core Drilling (02 41 19 13-0024)		
02 41 19 13-0252				10" To 14" Thick Limestone Core Drilling (02 41 19 13-0251)		
02 41 19 13-0253	EA			Drill 1" Diameter Core In 10" To 14" Limestone	56.15	
02 41 19 13-0254	EA			Drill 1-1/2" Diameter Core In 10" To 14" Limestone	67.41	
02 41 19 13-0255	EA			Drill 2" Diameter Core In 10" To 14" Limestone	73.07	
02 41 19 13-0256	EA			Drill 3" Diameter Core In 10" To 14" Limestone	84.42	
02 41 19 13-0257	EA			Drill 4" Diameter Core In 10" To 14" Limestone	95.76	
02 41 19 13-0258	EA			Drill 6" Diameter Core In 10" To 14" Limestone	135.07	
02 41 19 13-0259	EA			Drill 8" Diameter Core In 10" To 14" Limestone	224.83	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0260	15" To 18" Thick Limestone Core Drilling (02 41 19 13-0251)	
02 41 19 13-0261	EA Drill 1" Diameter Core In 15" To 18" Limestone	61.80
02 41 19 13-0262	EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone	73.06
02 41 19 13-0263	EA Drill 2" Diameter Core In 15" To 18" Limestone	78.76
02 41 19 13-0264	EA Drill 3" Diameter Core In 15" To 18" Limestone	84.55
02 41 19 13-0265	EA Drill 4" Diameter Core In 15" To 18" Limestone	112.71
02 41 19 13-0266	EA Drill 6" Diameter Core In 15" To 18" Limestone	146.43
02 41 19 13-0267	EA Drill 8" Diameter Core In 15" To 18" Limestone	236.37
02 41 19 13-0268	19" To 24" Thick Limestone Core Drilling (02 41 19 13-0251)	
02 41 19 13-0269	EA Drill 1" Diameter Core In 19" To 24" Limestone	67.44
02 41 19 13-0270	EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone	78.72
02 41 19 13-0271	EA Drill 2" Diameter Core In 19" To 24" Limestone	84.42
02 41 19 13-0272	EA Drill 3" Diameter Core In 19" To 24" Limestone	95.82
02 41 19 13-0273	EA Drill 4" Diameter Core In 19" To 24" Limestone	135.19
02 41 19 13-0274	EA Drill 6" Diameter Core In 19" To 24" Limestone	168.98
02 41 19 13-0275	EA Drill 8" Diameter Core In 19" To 24" Limestone	253.53
02 41 19 13-0276	Minimum Charge For Core Drilling (02 41 19 13-0024)	
02 41 19 13-0277	EA Core Drill Minimum Charge.....	754.18
	Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".	
02 41 19 13-0278	Cutouts (02 41 19 13)	
	Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.	
02 41 19 13-0279	Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0278)	
02 41 19 13-0280	SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	45.07
02 41 19 13-0281	SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	47.80
02 41 19 13-0282	SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	50.53
02 41 19 13-0283	SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	53.27
02 41 19 13-0284	SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	54.62
02 41 19 13-0285	Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0278)	
	Note: Includes cutting and removing steel decking.	
02 41 19 13-0286	SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	54.93
02 41 19 13-0287	SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	58.25
02 41 19 13-0288	SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	61.59
02 41 19 13-0289	SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	64.91
02 41 19 13-0290	SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	66.58
02 41 19 13-0291	Reinforced Concrete Wall Cutouts (02 41 19 13-0278)	
02 41 19 13-0292	SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	56.34
02 41 19 13-0293	SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	59.75
02 41 19 13-0294	SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	63.16
02 41 19 13-0295	SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	66.58
02 41 19 13-0296	SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	68.29
02 41 19 13-0297	Brick Wall Cutouts (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0298	SF 4" Thick Brick Wall Cutouts, <24 SF	17.07
02 41 19 13-0299	SF 6" Thick Brick Wall Cutouts, <24 SF	28.17
02 41 19 13-0300	SF 8" Thick Brick Wall Cutouts, <24 SF	39.23
02 41 19 13-0301	SF 10" Thick Brick Wall Cutouts, <24 SF	47.80
02 41 19 13-0302	SF 12" Thick Brick Wall Cutouts, <24 SF	57.19
02 41 19 13-0303	SF 16" Thick Brick Wall Cutouts, <24 SF	67.43
02 41 19 13-0304	Concrete Block Wall Cutouts (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0305	SF 4" Thick Concrete Block Wall Cutouts, <24 SF	28.24
02 41 19 13-0306	SF 6" Thick Concrete Block Wall Cutouts, <24 SF	29.91
02 41 19 13-0307	SF 8" Thick Concrete Block Wall Cutouts, <24 SF	31.58
02 41 19 13-0308	SF 10" Thick Concrete Block Wall Cutouts, <24 SF	33.29
02 41 19 13-0309	SF 12" Thick Concrete Block Wall Cutouts, <24 SF	34.14
02 41 19 13-0310	SF 16" Thick Concrete Block Wall Cutouts, <24 SF	35.85
02 41 19 13-0311	Limestone Cutouts (02 41 19 13-0278)	
02 41 19 13-0312	SF 2" Thick Limestone Cutouts, <24 SF	47.80
02 41 19 13-0313	SF 4" Thick Limestone Cutouts, <24 SF	58.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0314 SF 6" Thick Limestone Cutouts, <24 SF	61.45	
02 41 19 13-0315 SF 8" Thick Limestone Cutouts, <24 SF	64.87	
02 41 19 13-0316 SF 10" Thick Limestone Cutouts, <24 SF	68.29	
02 41 19 13-0317 SF 12" Thick Limestone Cutouts, <24 SF	71.70	
02 41 19 13-0318 Toothing Masonry Cutouts <small>(02 41 19 13-0278)</small>		
<small>Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.</small>		
02 41 19 13-0319 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	17.07	
02 41 19 13-0320 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	23.04	
02 41 19 13-0321 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	10.24	
02 41 19 13-0322 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	13.66	
02 41 19 13-0323 Minimum Charge For Cutouts <small>(02 41 19 13-0278)</small>		
<small>Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>		
02 41 19 13-0324 EA Cutouts Minimum Charge	341.42	
02 41 19 13-0325 Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0326 Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0325)</small>		
02 41 19 13-0327 VLF 8" x 8" Masonry Column Removal	13.29	
02 41 19 13-0328 VLF 10" x 10" Masonry Column Removal	20.76	
02 41 19 13-0329 VLF 12" x 12" Masonry Column Removal	26.58	
02 41 19 13-0330 VLF 14" x 14" Masonry Column Removal	33.28	
02 41 19 13-0331 VLF 16" x 16" Masonry Column Removal	40.89	
02 41 19 13-0332 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	22.96	
02 41 19 13-0333 Masonry Chimney Removal <small>(02 41 19 13-0325)</small>		
02 41 19 13-0334 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	26.93	
02 41 19 13-0335 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	20.22	
02 41 19 13-0336 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	15.48	
02 41 19 13-0337 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	10.71	
02 41 19 13-0338 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0325)</small>		
<small>Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0339 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	18.82	
02 41 19 13-0340 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	28.16	
02 41 19 13-0341 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	53.86	
02 41 19 13-0342 Facade Removal <small>(02 41 19 13-0325)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0343 SF Stone Or Brick Veneer Facade Removal	5.05	
<i>For Cleaning and Storage For Reuse, Add</i>	7.58	
02 41 19 13-0344 Exterior Masonry Removal <small>(02 41 19 13-0325)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0345 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	4.45	
02 41 19 13-0346 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	5.01	
02 41 19 13-0347 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	6.06	
02 41 19 13-0348 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.64	
02 41 19 13-0349 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	7.28	
02 41 19 13-0350 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	9.11	
02 41 19 13-0351 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.26	
02 41 19 13-0352 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.02	
02 41 19 13-0353 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.28	
02 41 19 13-0354 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	7.96	
02 41 19 13-0355 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	8.74	
02 41 19 13-0356 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	10.93	
02 41 19 13-0357 SF Demolish 4" Thick Brick Exterior Wall	4.45	
<i>For Cleaning and Storage For Reuse, Add</i>	6.68	
02 41 19 13-0358 SF Demolish 6" Thick Brick Exterior Wall	5.01	
<i>For Cleaning and Storage For Reuse, Add</i>	7.52	
02 41 19 13-0359 SF Demolish 8" Thick Brick Exterior Wall	6.06	
<i>For Cleaning and Storage For Reuse, Add</i>	9.09	
02 41 19 13-0360 SF Demolish 10" Thick Brick Exterior Wall	6.64	
<i>For Cleaning and Storage For Reuse, Add</i>	9.96	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0361 SF Demolish 12" Thick Brick Exterior Wall.....	7.28	
<i>For Cleaning and Storage For Reuse, Add</i>	10.92	
02 41 19 13-0362 SF Demolish 16" Thick Brick Exterior Wall.....	9.11	
<i>For Cleaning and Storage For Reuse, Add</i>	13.67	
02 41 19 13-0363 CF Exterior Brick, Concrete Block Or Composite Removal	12.95	
<i>For Cleaning and Storage For Reuse, Add</i>	19.43	
02 41 19 13-0364 Lintel Removal <small>(02 41 19 13-0325)</small>		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0365 LF Demolish Steel Lintel	17.43	
02 41 19 13-0366 LF Demolish Concrete Or Stone Lintel.....	23.24	
02 41 19 13-0367 LF Demolish Steel Shelf Angle	18.40	
02 41 19 13-0368 Reinstall Lintel <small>(02 41 19 13-0325)</small>		
Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0369 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	10.68	
02 41 19 13-0370 LF Reinstall Existing Concrete Or Stone Lintel	23.24	
02 41 19 13-0371 LF Reinstall Existing Steel Shelf Angle	47.22	
Note: Includes fasteners.		
02 41 19 13-0372 LF Reinstall Existing Steel Lintel.....	19.37	
02 41 19 13-0373 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	80.71	
02 41 19 13-0374 LF Removal And Replacement Of Steel Lintel Over Window Openings	137.18	
02 41 19 13-0375 Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0376 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	5.96	
02 41 19 13-0377 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	10.81	
02 41 19 13-0378 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	13.57	
02 41 19 13-0379 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	16.01	
02 41 19 13-0380 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	18.93	
02 41 19 13-0381 Elevated Concrete Removal <small>(02 41 19 13)</small>		
02 41 19 13-0382 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced	11.44	
02 41 19 16 Selective Interior Demolition <small>(02 41 19)</small>		
Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001 Floor Removal <small>(02 41 19 16)</small>		
02 41 19 16-0002 Scarify Concrete <small>(02 41 19 16-0001)</small>		
Note: Up to 1/4" removal per pass.		
02 41 19 16-0003 SF Scarify Concrete Floor	0.28	
02 41 19 16-0004 SF Scarify Concrete Tread And Riser	2.38	
02 41 19 16-0005 SF Scarify Concrete Wall	2.16	
02 41 19 16-0006 Fireproofing Removal <small>(02 41 19 16)</small>		
02 41 19 16-0007 SF Removal Of Fireproofing From Concrete Or Steel.....	1.12	
02 41 19 16-0008 Demolish Ceiling <small>(02 41 19 16)</small>		
02 41 19 16-0009 SF Demolish Drywall Ceiling	0.86	
02 41 19 16-0010 SF Demolish Furred Plastered Ceiling	2.02	
02 41 19 16-0011 SF Demolish Suspended Plastered Ceiling And Suspension System.....	1.55	
02 41 19 16-0012 Demolish Concrete Stair <small>(02 41 19 16)</small>		
02 41 19 16-0013 CF Demolish Interior Reinforced Concrete Stairs.....	7.28	
02 41 19 16-0014 CF Demolish Exterior Reinforced Concrete Stairs.....	6.22	
02 41 19 16-0015 Demolish Interior Partition/Wall <small>(02 41 19 16)</small>		
Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0016 Demolish Masonry And Concrete Interior Partition/Walls <small>(02 41 19 16-0015)</small>		
Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0017 Demolish Concrete Block Interior Partition/Walls <small>(02 41 19 16-0016)</small>		
02 41 19 16-0018 SF Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	4.71	
02 41 19 16-0019 SF Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall	5.03	
02 41 19 16-0020 SF Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall	5.68	
02 41 19 16-0021 SF Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall	7.29	
02 41 19 16-0022 SF Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall	9.11	
02 41 19 16-0023 SF Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall	5.66	
02 41 19 16-0024 SF Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0025 SF Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall	6.81	
02 41 19 16-0026 SF Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall	8.75	
02 41 19 16-0027 SF Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall	10.93	
02 41 19 16-0028 Demolish Brick Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0029 SF Demolish 4" Thick Brick Interior Partition/Wall.....	4.71	
02 41 19 16-0030 SF Demolish 8" Thick Brick Interior Partition/Wall.....	5.68	
02 41 19 16-0031 SF Demolish 12" Thick Brick Interior Partition/Wall.....	7.28	
02 41 19 16-0032 SF Demolish 16" Thick Brick Interior Partition/Wall.....	9.11	
02 41 19 16-0033 Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0034 SF Demolish Glass Block Interior Partition/Walls.....	4.04	
02 41 19 16-0035 Demolish Concrete Interior Partition/Walls (02 41 19 16-0016)		
See CSI section 02 41 16 13-0021 for concrete foundation demolition.		
02 41 19 16-0036 SF Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall.....	8.57	
02 41 19 16-0037 SF Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall.....	10.71	
02 41 19 16-0038 SF Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall.....	15.00	
02 41 19 16-0039 SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall.....	10.29	
02 41 19 16-0040 SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall.....	12.95	
02 41 19 16-0041 SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall.....	18.01	
02 41 19 16-0042 Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0043 SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster	1.62	
02 41 19 16-0044 Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015)		
Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0045 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side	2.86	
For Heights >14' To 20', Add	0.43	
For Heights >20', Add	0.57	
02 41 19 16-0046 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.33	
For Heights >14' To 20', Add	0.50	
For Heights >20', Add	0.67	
02 41 19 16-0047 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.65	
For Heights >14' To 20', Add	0.55	
For Heights >20', Add	0.73	
02 41 19 16-0048 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.07	
For Heights >14' To 20', Add	0.76	
For Heights >20', Add	1.01	
02 41 19 16-0049 SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.51	
For Heights >14' To 20', Add	0.23	
For Heights >20', Add	0.30	
02 41 19 16-0050 SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.79	
For Heights >14' To 20', Add	0.27	
For Heights >20', Add	0.36	
02 42 Removal and Salvage of Construction Materials (02 40)		
02 42 21 Salvage of Construction Materials (02 42)		
Note: Includes placement on pallets and storage on site.		
02 42 21 35 Roofing Salvage (02 42 21)		
02 42 21 35-0001 Clay Tile Roof Remove And Salvage For Re-use (02 42 21 35)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 35-0002 SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	262.78	
02 42 21 47 Flooring Salvage (02 42 21)		
02 42 21 47-0001 Remove And Salvage For Re-Use (02 42 21 47)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 47-0002 SF Removal Of Brick Flooring And Salvage.....	2.39	
02 42 21 47-0003 SF Removal Of Ceramic/Quarry Tile Floor And Salvage	2.39	
02 42 21 47-0004 SF Removal Of Terrazzo Flooring And Salvage.....	3.31	
02 42 21 47-0005 SF Removal Of Wood Strip Flooring And Salvage.....	1.93	
02 42 21 47-0006 SF Removal Of Wood Parquet Flooring And Salvage.....	1.02	
02 42 21 47-0007 SF Removal Of Resilient/Linoleum Flooring And Salvage	0.73	
02 43 Structure Moving (02 40)		
02 43 13 Structure Relocation (02 43)		
Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
02 43 13 13 Building Relocation (02 43 13)		

02	02 Existing Conditions
	02 40 Demolition and Structure Moving
	02 43 Structure Moving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)

¹³⁾
Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building	32.71
02 43 13 13-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building	30.92
02 43 13 13-0004	SF	>920 SF, Move Relocatable Metal Frame Building	28.94
02 43 13 13-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building	26.25
02 43 13 13-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building	24.53
02 43 13 13-0007	SF	>920 SF, Move Relocatable Wood Frame Building	21.70
02 43 13 13-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building	31.79
02 43 13 13-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building	28.94
02 43 13 13-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building	24.53

02 50 Site Remediation (02)

02 58 Snow Control (02 50)

02 58 13 Snow Fencing (02 58)

02 58 13 00-0001 Snow/Sand Fence On Steel Posts (02 58 13)

02 58 13 00-0002	LF	Steel Fence Post, 10' On Center With 4' Wood Snow/Sand Fence	6.65	1.90
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02 60 Contaminated Site Material Removal (02)

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

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

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

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

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

02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	887.49
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	58.83
		<i>For Work In Restricted Working Space, Add</i>	17.65
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	39.22
		<i>For Work In Restricted Working Space, Add</i>	11.77
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	29.45
		<i>For Work In Restricted Working Space, Add</i>	8.84
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	23.53
		<i>For Work In Restricted Working Space, Add</i>	7.06
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	20.00
		<i>For Work In Restricted Working Space, Add</i>	6.00
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	18.00
		<i>For Work In Restricted Working Space, Add</i>	5.40

02 80 Facility Remediation (02)

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

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

02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	528.64
		<small>Note: Excludes Disposal Cost.</small>	
02 81 00 00-0003	DRM	Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum	83.07
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0004	DRM	Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum	377.60
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0005	DRM	Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	679.68
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0006	CF	Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	90.48
		<small>Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.</small>	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 82 Asbestos Remediation (02 80)

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

02 82 13 Asbestos Abatement (02 82)

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

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

02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	70.80
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	49.08
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	57.54
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	91.40
02 82 13 00-0006	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	157.40
02 82 13 00-0007	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	191.25
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	38.93
02 82 13 00-0009	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing	47.39
02 82 13 00-0010	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing	64.32
02 82 13 00-0011	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	49.08
02 82 13 00-0012	EA	Next Day Turnaround, (Air Point Counting) PLM Test	57.54
02 82 13 00-0013	EA	Same Day Turnaround, (Air Point Counting) PLM Test	91.40
02 82 13 00-0014	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	157.40
02 82 13 00-0015	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing	181.10
02 82 13 00-0016	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing	252.18

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

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

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.43
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound)	1.93
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.07
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.27
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	6.90
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	7.79

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

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

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

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

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

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

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

02 82 33 00-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	930.18
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	32.38
		<i>For Work In Restricted Working Space, Add</i>	9.08
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	24.82
		<i>For Work In Restricted Working Space, Add</i>	6.81
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.15
		<i>For Work In Restricted Working Space, Add</i>	5.11
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	14.89
		<i>For Work In Restricted Working Space, Add</i>	3.83
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	13.23
		<i>For Work In Restricted Working Space, Add</i>	3.33

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

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

02 82 33 00-0011	SET	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	972.87
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	39.07
		<i>For Work In Restricted Working Space, Add</i>	10.44
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	30.36
		<i>For Work In Restricted Working Space, Add</i>	7.83
02 82 33 00-0014	LF	>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	23.84
		<i>For Work In Restricted Working Space, Add</i>	5.87

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	18.94	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	17.04	
			<i>For Work In Restricted Working Space, Add</i>	3.83	
02 82 33 00-0017			Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-002)		
			Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018	SET		Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	579.17	
			<i>For Work In Restricted Working Space, Add</i>	169.91	
02 82 33 00-0019	LF		>3 To 20 LF Additional Glove Bag Work for Pipe Insulation	98.66	
			<i>For Work In Restricted Working Space, Add</i>	28.32	
02 82 33 00-0020	LF		>20 To 250 LF Additional Glove Bag Work for Pipe Insulation	40.92	
			<i>For Work In Restricted Working Space, Add</i>	11.00	
02 82 33 00-0021	LF		>250 To 500 LF Additional Glove Bag Work for Pipe Insulation	31.74	
			<i>For Work In Restricted Working Space, Add</i>	8.24	
02 82 33 00-0022	LF		>500 LF Additional Glove Bag Work for Pipe Insulation	24.88	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
02 82 33 00-0023			Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024			Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025	SET		Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	908.83	
02 82 33 00-0026	SF		>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	38.29	
02 82 33 00-0027	SF		>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	31.87	
02 82 33 00-0028	SF		>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	25.90	
02 82 33 00-0029	SF		>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	21.44	
02 82 33 00-0030			Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031	SET		Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	898.16	
02 82 33 00-0032	SF		>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	33.10	
02 82 33 00-0033	SF		>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	26.68	
02 82 33 00-0034	SF		>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	20.71	
02 82 33 00-0035	SF		>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	16.25	
02 82 33 00-0036			Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037	SET		Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	894.61	
02 82 33 00-0038	SF		>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	29.19	
02 82 33 00-0039	SF		>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	22.76	
02 82 33 00-0040	SF		>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	16.79	
02 82 33 00-0041	SF		>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	12.33	
02 82 33 00-0042			Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)		
			Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043	SET		Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	914.17	
02 82 33 00-0044	SF		>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	31.32	
02 82 33 00-0045	SF		>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	24.89	
02 82 33 00-0046	SF		>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	18.94	
02 82 33 00-0047	SF		>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	14.47	
02 82 33 00-0048			Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049			Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050	EA		Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal	148.99	
			Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051			Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052	SET		Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	914.17	
02 82 33 00-0053	SF		>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	37.37	
02 82 33 00-0054	SF		>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	28.28	
02 82 33 00-0055	SF		>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	21.48	
02 82 33 00-0056	SF		>10,000 SF, Fireproofing, Asbestos Abatement And Disposal	16.38	
02 82 33 00-0057			Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058	SET		Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	905.28	
02 82 33 00-0059	SF		>25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	15.87	
02 82 33 00-0060	SF		>500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.17	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.22	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.00	
02 82 33 00-0063 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0064 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	923.07	
For Additional Layer, Add	244.06	
02 82 33 00-0065 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.35	
For Additional Layer, Add	3.20	
02 82 33 00-0066 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.22	
For Additional Layer, Add	2.34	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.37	
For Additional Layer, Add	1.83	
02 82 33 00-0068 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	5.89	
For Additional Layer, Add	1.42	
02 82 33 00-0069 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.78	
For Additional Layer, Add	1.12	
02 82 33 00-0070 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	3.97	
For Additional Layer, Add	0.90	
02 82 33 00-0071 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0072 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	905.28	
02 82 33 00-0073 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	22.83	
02 82 33 00-0074 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	16.90	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.36	
02 82 33 00-0076 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.55	
02 82 33 00-0077 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	7.74	
02 82 33 00-0078 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0079 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0080 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	26.43	
02 82 33 00-0081 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	20.00	
02 82 33 00-0082 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	15.18	
02 82 33 00-0083 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	11.56	
02 82 33 00-0084 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0085 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0086 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	10.57	
02 82 33 00-0087 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	8.81	
02 82 33 00-0088 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.26	
02 82 33 00-0089 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	4.86	
02 82 33 00-0090 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0091 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	915.96	
02 82 33 00-0092 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.28	
02 82 33 00-0093 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.76	
02 82 33 00-0094 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.80	
02 82 33 00-0095 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.19	
02 82 33 00-0096 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0097 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0098 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0099 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0100 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0101 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.63	
For Each Additional Layer, Add	1.41	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.59	
For Each Additional Layer, Add	1.15	
02 82 33 00-0103 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	3.33	
For Each Additional Layer, Add	0.83	
02 82 33 00-0104 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0105 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0106 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0107 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.65	
For Each Additional Layer, Add	1.41	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.17	
For Each Additional Layer, Add	1.29	
02 82 33 00-0109 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	4.27	
For Each Additional Layer, Add	1.07	
02 82 33 00-0110 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0097)		
02 82 33 00-0111 SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	894.61	
02 82 33 00-0112 SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.35	
02 82 33 00-0113 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0114 SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0115 SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.69	
02 82 33 00-0116 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Up to 12".		
02 82 33 00-0117 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	304.72	
02 82 33 00-0118 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.31	
02 82 33 00-0119 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.72	
02 82 33 00-0120 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.84	
02 82 33 00-0121 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.40	
02 82 33 00-0122 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0096)		
Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0123 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal.....	905.29	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0124 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.39	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0125 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	1.80	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0126 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.43	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0127 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.18	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0128 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0096)		
Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0129 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	958.65	
02 82 33 00-0130 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.70	
02 82 33 00-0131 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.82	
02 82 33 00-0132 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.70	
02 82 33 00-0133 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.82	
02 82 33 00-0134 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0135 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	923.05	
02 82 33 00-0136 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.28	
02 82 33 00-0137 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.54	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0138 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0139 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.68	
02 82 33 00-0140 Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0141 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0142 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0143 SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	976.44	
02 82 33 00-0144 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.38	
02 82 33 00-0145 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.25	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0146 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.34	
02 82 33 00-0147 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.43	
02 82 33 00-0148 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.75	
02 82 33 00-0149 >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0150 SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,044.02	
02 82 33 00-0151 SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88	
02 82 33 00-0152 SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.57	
02 82 33 00-0153 SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.56	
02 82 33 00-0154 SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.53	
02 82 33 00-0155 SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.74	
02 82 33 00-0156 >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0157 SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,122.28	
02 82 33 00-0158 SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.30	
02 82 33 00-0159 SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.85	
02 82 33 00-0160 SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.73	
02 82 33 00-0161 SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.58	
02 82 33 00-0162 SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.71	
02 82 33 00-0163 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0164 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0163)		
02 82 33 00-0165 SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	909.72	
Note: Single or first of multiple layers.		
02 82 33 00-0166 SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	5.85	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.46	
02 82 33 00-0167 SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.72	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.18	
02 82 33 00-0168 SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.81	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.95	
02 82 33 00-0169 SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.90	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.73	
02 82 33 00-0170 SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.22	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.56	
02 82 33 00-0171 Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0172 SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	297.61	
02 82 33 00-0173 SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.40	
02 82 33 00-0174 SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.00	
02 82 33 00-0175 SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.64	
02 82 33 00-0176 SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.24	
02 82 33 00-0177 Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0178 SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	297.61	
02 82 33 00-0179 LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.84	
02 82 33 00-0180 LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.50	
02 82 33 00-0181 LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.62	
02 82 33 00-0182 LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0183 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0184 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0185 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	923.05	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0186 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	6.41	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0187 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.39	
Note: Includes detachment of mounted objects before removal.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0188 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.78	
02 82 33 00-0189 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.46	
02 82 33 00-0190 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0183)</small>		
02 82 33 00-0191 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	923.05	
02 82 33 00-0192 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	5.61	
02 82 33 00-0193 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.05	
02 82 33 00-0194 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.51	
02 82 33 00-0195 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.23	
02 82 33 00-0196 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0183)</small>		
02 82 33 00-0197 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	782.27	
02 82 33 00-0198 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	34.52	
02 82 33 00-0199 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	26.96	
02 82 33 00-0200 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	21.29	
02 82 33 00-0201 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	17.03	
02 82 33 00-0202 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	13.85	
02 82 33 00-0203 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	13.62	
02 82 33 00-0204 Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0183)</small>		
02 82 33 00-0205 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	947.79	
02 82 33 00-0206 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	5.09	
02 82 33 00-0207 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	4.14	
02 82 33 00-0208 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	3.39	
02 82 33 00-0209 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	2.63	
02 82 33 00-0210 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	2.07	
02 82 33 00-0211 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0212 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0211)</small>		
02 82 33 00-0213 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	634.35 177.50	
02 82 33 00-0214 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	63.10 17.65	
02 82 33 00-0215 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	43.49 11.77	
02 82 33 00-0216 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	33.72 8.84	
02 82 33 00-0217 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	27.80 7.06	
02 82 33 00-0218 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	24.27 6.00	
02 82 33 00-0219 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	22.27 5.40	
02 82 33 00-0220 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal <small>(02 82 33 00-0211)</small>		
02 82 33 00-0221 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	673.62	
02 82 33 00-0222 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	73.44	
02 82 33 00-0223 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	55.79	
02 82 33 00-0224 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	47.00	
02 82 33 00-0225 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	41.67	
02 82 33 00-0226 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	38.49	
02 82 33 00-0227 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	36.68	
02 82 33 00-0228 Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0229 30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0228)</small>		
02 82 33 00-0230 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	315.04	
02 82 33 00-0231 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	125.71	
02 82 33 00-0232 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	115.06	
02 82 33 00-0233 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal <small>(02 82 33 00-0228)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0234 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	296.72	
02 82 33 00-0235 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	6.14	
02 82 33 00-0236 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	4.63	
02 82 33 00-0237 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.99	
02 82 33 00-0238 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.45	
02 82 33 00-0239 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	2.97	
02 82 33 00-0240 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	2.57	
02 82 33 00-0241 Grout, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. flue grout.		
02 82 33 00-0242 SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	296.42	
02 82 33 00-0243 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	11.70	
02 82 33 00-0244 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	8.07	
02 82 33 00-0245 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	6.93	
02 82 33 00-0246 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	5.96	
02 82 33 00-0254 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	5.14	
02 82 33 00-0248 LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	4.41	
02 82 33 00-0249 Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. rope, web cloth, flat.		
02 82 33 00-0250 SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	296.72	
02 82 33 00-0251 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	15.78	
02 82 33 00-0252 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	11.85	
02 82 33 00-0253 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	10.12	
02 82 33 00-0254 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	9.11	
02 82 33 00-0255 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	8.19	
02 82 33 00-0256 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	7.80	
02 82 33 00-0257 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. grid, spline, or glued on.		
02 82 33 00-0258 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	609.44	
02 82 33 00-0259 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	12.93	
02 82 33 00-0260 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	6.41	
02 82 33 00-0261 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	4.45	
02 82 33 00-0262 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	3.84	
02 82 33 00-0263 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0264 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	601.26	
02 82 33 00-0265 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	12.93	
02 82 33 00-0266 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	6.41	
02 82 33 00-0267 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.45	
02 82 33 00-0268 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.84	
02 82 33 00-0269 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0270 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0269)		
02 82 33 00-0271 SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	296.42	
02 82 33 00-0272 LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	8.78	
02 82 33 00-0273 LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	6.22	
02 82 33 00-0274 LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	4.64	
02 82 33 00-0275 LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	3.50	
02 82 33 00-0276 LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	2.78	
02 82 33 00-0277 LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	2.42	
02 82 33 00-0278 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0279 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal.....	296.42	

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

02 82 33 00-0280	LF	>10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	11.70
02 82 33 00-0281	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	8.07
02 82 33 00-0282	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	6.93
02 82 33 00-0283	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.96
02 82 33 00-0284	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.14

02 83 Lead Remediation (02 80)

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

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

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

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

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

02 83 19 13-0002	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	80.68
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing	58.34
		Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	55.85
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	84.62
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	118.48
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	22.00
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	33.85
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	42.31
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	55.85
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	84.62
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee.....	9.31
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	12.69
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	18.62
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee	9.31
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee.....	12.69
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee.....	18.62
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee.....	33.85
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee	50.78
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee	67.70
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee.....	35.01
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee	70.01

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

02 83 19 13-0024	EA	Lead-Based Paint Remediation Minimum Show Up Charge.....	1,051.97
		Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	

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

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

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	30.82
		For 0.025" (25 mil) Application, Add	1.73
		For 0.03" (30 mil) Application, Add	2.71
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	45.76
		For 0.025" (25 mil) Application, Add	2.48
		For 0.03" (30 mil) Application, Add	3.83
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material.....	13.22
		For 0.025" (25 mil) Application, Add	0.77
		For 0.03" (30 mil) Application, Add	1.23
		For 0.125" (125 mil) Application, Add	6.67
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material.....	27.06
		For 0.025" (25 mil) Application, Add	1.47
		For 0.03" (30 mil) Application, Add	2.27
		For 0.125" (125 mil) Application, Add	10.13
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material.....	14.34
		For 0.025" (25 mil) Application, Add	0.91
		For 0.03" (30 mil) Application, Add	1.48
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material.....	40.79
		For 0.025" (25 mil) Application, Add	2.23
		For 0.03" (30 mil) Application, Add	3.46



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0032	SF			Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material 8.82 <i>For 0.025" (25 mil) Application, Add</i> 0.59 <i>For 0.03" (30 mil) Application, Add</i> 0.98 <i>For 0.125" (125 mil) Application, Add</i> 6.71		
02 83 19 13-0033	SF			Cabinets, Chemical Stripping Of Lead Contaminated Material 25.77 <i>For 0.025" (25 mil) Application, Add</i> 1.44 <i>For 0.03" (30 mil) Application, Add</i> 2.25		
02 83 19 13-0034	SF			Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material 32.86 <i>For 0.025" (25 mil) Application, Add</i> 1.79 <i>For 0.03" (30 mil) Application, Add</i> 2.78		
02 83 19 13-0035	SF			Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material 12.19 <i>For 0.025" (25 mil) Application, Add</i> 0.76 <i>For 0.03" (30 mil) Application, Add</i> 1.23		
02 83 19 13-0036	SF			Columns, Chemical Stripping Of Lead Contaminated Material 11.70 <i>For 0.025" (25 mil) Application, Add</i> 0.77 <i>For 0.03" (30 mil) Application, Add</i> 1.28 <i>For 0.125" (125 mil) Application, Add</i> 8.57		
02 83 19 13-0037	SF			Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material 10.31 <i>For 0.025" (25 mil) Application, Add</i> 0.67 <i>For 0.03" (30 mil) Application, Add</i> 1.09		
02 83 19 13-0038	SF			Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material 10.76 <i>For 0.025" (25 mil) Application, Add</i> 0.69 <i>For 0.03" (30 mil) Application, Add</i> 1.13		
02 83 19 13-0039	SF			Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated 18.72 <i>For 0.025" (25 mil) Application, Add</i> 1.12 <i>For 0.03" (30 mil) Application, Add</i> 1.80		
02 83 19 13-0040	EA			Electrical Devices, Chemical Stripping Of Lead Contaminated Material 53.63 <i>For 0.025" (25 mil) Application, Add</i> 2.98 <i>For 0.03" (30 mil) Application, Add</i> 4.66		
02 83 19 13-0041	LF			Door Frames, Chemical Stripping Of Lead Contaminated Material 13.26 <i>For 0.025" (25 mil) Application, Add</i> 0.81 <i>For 0.03" (30 mil) Application, Add</i> 1.31		
02 83 19 13-0042	SF			Wood Floors, Chemical Stripping Of Lead Contaminated Material 7.25 <i>For 0.025" (25 mil) Application, Add</i> 0.51 <i>For 0.03" (30 mil) Application, Add</i> 0.86		
02 83 19 13-0043	SF			HVAC Grilles, Chemical Stripping Of Lead Contaminated Material 27.55 <i>For 0.025" (25 mil) Application, Add</i> 1.53 <i>For 0.03" (30 mil) Application, Add</i> 2.39		
02 83 19 13-0044	SF			HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material 32.86 <i>For 0.025" (25 mil) Application, Add</i> 1.79 <i>For 0.03" (30 mil) Application, Add</i> 2.78		
02 83 19 13-0045	EA			Hinges, Chemical Stripping Of Lead Contaminated Material 17.19 <i>For 0.025" (25 mil) Application, Add</i> 1.09 <i>For 0.03" (30 mil) Application, Add</i> 1.77		
02 83 19 13-0046	EA			Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material 21.20 <i>For 0.025" (25 mil) Application, Add</i> 1.29 <i>For 0.03" (30 mil) Application, Add</i> 2.07 <i>For 0.125" (125 mil) Application, Add</i> 12.08		
02 83 19 13-0047	LF			Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 5.89 <i>For 0.025" (25 mil) Application, Add</i> 0.41 <i>For 0.03" (30 mil) Application, Add</i> 0.68 <i>For 0.125" (125 mil) Application, Add</i> 4.83		
02 83 19 13-0048	LF			>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 9.49 <i>For 0.025" (25 mil) Application, Add</i> 0.59 <i>For 0.03" (30 mil) Application, Add</i> 0.95 <i>For 0.125" (125 mil) Application, Add</i> 5.73		
02 83 19 13-0049	LF			>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 17.00 <i>For 0.025" (25 mil) Application, Add</i> 1.04 <i>For 0.03" (30 mil) Application, Add</i> 1.67 <i>For 0.125" (125 mil) Application, Add</i> 9.89		
02 83 19 13-0050	LF			>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 23.31 <i>For 0.025" (25 mil) Application, Add</i> 1.39 <i>For 0.03" (30 mil) Application, Add</i> 2.23 <i>For 0.125" (125 mil) Application, Add</i> 12.61		
02 83 19 13-0051	LF			>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 41.83 <i>For 0.025" (25 mil) Application, Add</i> 2.43 <i>For 0.03" (30 mil) Application, Add</i> 3.86 <i>For 0.125" (125 mil) Application, Add</i> 20.60		
02 83 19 13-0052	SF			>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area 12.51 <i>For 0.025" (25 mil) Application, Add</i> 0.71 <i>For 0.03" (30 mil) Application, Add</i> 1.11 <i>For 0.125" (125 mil) Application, Add</i> 5.53		
02 83 19 13-0053	EA			Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material 249.00 <i>For 0.025" (25 mil) Application, Add</i> 13.54 <i>For 0.03" (30 mil) Application, Add</i> 20.99		
02 83 19 13-0054	SF			Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material 17.25 <i>For 0.025" (25 mil) Application, Add</i> 1.29 <i>For 0.03" (30 mil) Application, Add</i> 2.19		
02 83 19 13-0055	SF			Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material 18.90 <i>For 0.025" (25 mil) Application, Add</i> 1.37 <i>For 0.03" (30 mil) Application, Add</i> 2.32		
02 83 19 13-0056	SF			Siding, Chemical Stripping Of Lead Contaminated Material 9.87 <i>For 0.025" (25 mil) Application, Add</i> 0.68 <i>For 0.03" (30 mil) Application, Add</i> 1.14 <i>For 0.125" (125 mil) Application, Add</i> 8.11		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 83 19 13-0057	SF		Soffit, Chemical Stripping Of Lead Contaminated Material	20.82	
			For 0.025" (25 mil) Application, Add	1.19	
			For 0.03" (30 mil) Application, Add	1.88	
			For 0.125" (125 mil) Application, Add	9.71	
02 83 19 13-0058	SF		Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	9.53	
			For 0.025" (25 mil) Application, Add	0.63	
			For 0.03" (30 mil) Application, Add	1.03	
			For 0.125" (125 mil) Application, Add	6.88	
02 83 19 13-0059	SF		Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	10.83	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.21	
02 83 19 13-0060	SF		Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0061	SF		Steel Trusses, Chemical Stripping Of Lead Contaminated Material	15.35	
			For 0.025" (25 mil) Application, Add	0.92	
			For 0.03" (30 mil) Application, Add	1.47	
			For 0.125" (125 mil) Application, Add	8.34	
02 83 19 13-0062	SF		Wood Surfaces, Chemical Stripping Of Lead Contaminated Material	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0063	SF		Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material	25.01	
			For 0.025" (25 mil) Application, Add	1.40	
			For 0.03" (30 mil) Application, Add	2.19	
02 83 19 13-0064	SF		Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material	27.38	
			For 0.025" (25 mil) Application, Add	1.52	
			For 0.03" (30 mil) Application, Add	2.37	
02 83 19 13-0065	SF		Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material	28.98	
			For 0.025" (25 mil) Application, Add	1.60	
			For 0.03" (30 mil) Application, Add	2.49	
02 83 19 13-0066	SF		Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material	30.59	
			For 0.025" (25 mil) Application, Add	1.68	
			For 0.03" (30 mil) Application, Add	2.61	
02 83 19 13-0067	SF		Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material	32.20	
			For 0.025" (25 mil) Application, Add	1.76	
			For 0.03" (30 mil) Application, Add	2.73	
02 83 19 13-0068	SF		Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material	33.86	
			For 0.025" (25 mil) Application, Add	1.84	
			For 0.03" (30 mil) Application, Add	2.86	
02 83 19 13-0069	SF		Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material	35.42	
			For 0.025" (25 mil) Application, Add	1.92	
			For 0.03" (30 mil) Application, Add	2.98	
02 83 19 13-0070	SF		Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material	36.22	
			For 0.025" (25 mil) Application, Add	1.96	
			For 0.03" (30 mil) Application, Add	3.04	
02 83 19 13-0071	SF		Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material	37.05	
			For 0.025" (25 mil) Application, Add	2.00	
			For 0.03" (30 mil) Application, Add	3.10	
02 83 19 13-0072	SF		Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material	37.82	
			For 0.025" (25 mil) Application, Add	2.04	
			For 0.03" (30 mil) Application, Add	3.16	
02 83 19 13-0073	SF		Metal Stairs, Chemical Stripping Of Lead Contaminated Material	49.92	
			For 0.025" (25 mil) Application, Add	2.80	
			For 0.03" (30 mil) Application, Add	4.38	
			For 0.125" (125 mil) Application, Add	21.48	
02 83 19 13-0074	LF		Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	8.63	
			For 0.025" (25 mil) Application, Add	0.54	
			For 0.03" (30 mil) Application, Add	0.89	
			For 0.125" (125 mil) Application, Add	5.52	
02 83 19 13-0075	SF		Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	25.34	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
			For 0.025" (25 mil) Application, Add	1.49	
			For 0.03" (30 mil) Application, Add	2.38	
			For 0.125" (125 mil) Application, Add	13.12	
02 83 19 13-0076	SF		Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	27.74	
			For 0.025" (25 mil) Application, Add	1.58	
			For 0.03" (30 mil) Application, Add	2.48	
			For 0.125" (125 mil) Application, Add	12.58	

02 83 19 13-0077 Demolish Lead Contaminated Material (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0078	SF		Demolish Ceiling Suspension System, Lead Contaminated Material	2.20	
02 83 19 13-0079	SF		Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.28	
02 83 19 13-0080	SF		Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.82	
02 83 19 13-0081	SF		Demolish Metal Pan Grid System, Lead Contaminated Material	1.27	
02 83 19 13-0082	EA		Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	61.43	
02 83 19 13-0083	EA		Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	81.49	
02 83 19 13-0084	SF		Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.10	
02 83 19 13-0085	SF		Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0086 SF Demolish Brick, Lead Contaminated Material.....	3.83	
02 83 19 13-0087 SF Demolish Concrete Block, Lead Contaminated Material.....	4.94	
02 83 19 13-0088 SF Demolish Tile, Lead Contaminated Material.....	3.73	
02 83 19 13-0089 SF Demolish Up To 6" Concrete, Lead Contaminated Material.....	5.59	
02 83 19 13-0090 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	4.35	
02 83 19 13-0091 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	5.78	
02 83 19 13-0092 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	6.37	
02 83 19 13-0093 LF Demolish Up To 6" Wide Baseboard, Lead Contaminated Material.....	1.66	
02 83 19 13-0094 LF Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material.....	2.08	
02 83 19 13-0095 LF Demolish Base Shoe Molding, Lead Contaminated Material.....	1.35	
02 83 19 13-0096 SF Demolish Concrete, Lead Contaminated Material.....	12.67	
02 83 19 13-0097 LF Demolish Cabinets, Lead Contaminated Material.....	29.52	
02 83 19 13-0098 SF Demolish Ceilings, Gypsum Board, Lead Contaminated Material.....	1.67	
02 83 19 13-0099 SF Demolish Up To 12" Diameter Columns, Lead Contaminated Material.....	16.35	
02 83 19 13-0100 SF Demolish Cornice, Lead Contaminated Material.....	2.17	
02 83 19 13-0101 EA Demolish Doors, Lead Contaminated Material.....	64.03	
02 83 19 13-0102 LF Demolish Door And Window Trim Or Frames, Lead Contaminated Material.....	1.95	
02 83 19 13-0103 EA Demolish Electrical Devices, Lead Contaminated Material.....	19.65	
02 83 19 13-0104 LF Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material.....	2.52	
02 83 19 13-0105 LF Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material.....	4.19	
02 83 19 13-0106 SF Demolish Wood Floors, Lead Contaminated Material.....	3.02	
02 83 19 13-0107 SF Demolish Grilles, Lead Contaminated Material.....	3.56	
02 83 19 13-0108 EA Demolish Hinges, Lead Contaminated Material.....	7.14	
02 83 19 13-0109 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material.....	15.35	
02 83 19 13-0110 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	6.29	
02 83 19 13-0111 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	9.18	
02 83 19 13-0112 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	13.88	
02 83 19 13-0113 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material.....	25.59	
02 83 19 13-0114 EA Demolish Radiators, Lead Contaminated Material.....	110.52	
02 83 19 13-0115 EA Demolish Shutters, Lead Contaminated Material.....	43.07	
02 83 19 13-0116 SF Demolish Siding, Lead Contaminated Material.....	1.71	
02 83 19 13-0117 SF Demolish Soffit, Lead Contaminated Material.....	1.45	
02 83 19 13-0118 SF Demolish Flat Steel Surfaces, Lead Contaminated Material.....	3.98	
02 83 19 13-0119 SF Demolish Steel Beams, Lead Contaminated Material.....	4.69	
02 83 19 13-0120 SF Demolish Trusses, Lead Contaminated Material.....	6.15	
02 83 19 13-0121 SF Demolish Walls, Wood, Lead Contaminated Material.....	4.54	
02 83 19 13-0122 SF Demolish Windows, Lead Contaminated Material.....	15.29	
02 83 19 13-0123 SF Demolish Metal Stair, Lead Contaminated Material.....	7.32	
02 83 19 13-0124 LF Demolish Single Metal Hand Rail, Lead Contaminated Material.....	5.38	
02 83 19 13-0125 LF Demolish Metal Railing And Posts, Lead Contaminated Material.....	8.78	
02 83 19 13-0126 SF Demolish Metal Picket Fence, Lead Contaminated Material.....	2.42	
02 83 19 13-0127 SF Demolish Plywood, Lead Contaminated Material.....	6.61	
02 83 19 13-0128 SF Demolish Planks (Various Sizes), Lead Contaminated Material.....	3.23	
02 83 19 13-0129 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	20.17	
02 83 19 13-0130 SF Demolish Ceramic Tile Block, Lead Contaminated Material.....	4.40	
02 83 19 13-0131 LF Demolish Metal Guard Rails, Lead Contaminated Material.....	12.11	
02 83 19 13-0132 SF Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material.....	6.45	
02 83 19 13-0133 SF Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material.....	4.64	
02 83 19 13-0134 SF Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	3.63	
02 83 19 13-0135 SF Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	2.83	
02 83 19 13-0136 SF Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material.....	20.17	
02 83 19 13-0137 SF Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material.....	14.34	
02 83 19 13-0138 SF Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material.....	10.76	
02 83 19 13-0139 SF Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material.....	8.07	
02 83 19 13-0140 Wet Sanding Of Lead Contaminated Material (02 83 19 13)		
02 83 19 13-0141 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint.....	1.75	
02 83 19 13-0142 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0143 SF Balustrades, Lead Abatement Encapsulation.....	5.54	
02 83 19 13-0144 LF Up To 6" Wide, Baseboard, Lead Abatement Encapsulation.....	6.42	
02 83 19 13-0145 LF >6" To 12" Wide, Baseboard, Lead Abatement Encapsulation.....	8.64	
02 83 19 13-0146 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	3.55	
02 83 19 13-0147 SF Ornate Cabinets, Lead Abatement Encapsulation.....	8.03	
02 83 19 13-0148 SF Simple Design Cabinets, Lead Abatement Encapsulation.....	6.53	
02 83 19 13-0149 SF Drywall Ceilings, Lead Abatement Encapsulation.....	2.21	
02 83 19 13-0150 SF Wood Ceilings, Lead Abatement Encapsulation.....	2.70	
02 83 19 13-0151 SF Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation.....	2.50	
02 83 19 13-0152 SF Columns, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0153 SF Doors, Lead Abatement Encapsulation.....	9.44	
02 83 19 13-0154 LF Up To 2" Electrical Conduit, Lead Abatement Encapsulation.....	3.63	
02 83 19 13-0155 SF Picket Fence (Brush), Lead Abatement Encapsulation.....	2.55	
02 83 19 13-0156 SF Wood Floors (Roller), Lead Abatement Encapsulation.....	2.13	
02 83 19 13-0157 SF Grilles, Vents, Lead Abatement Encapsulation.....	5.98	
02 83 19 13-0158 LF Gutters And Downspouts, Lead Abatement Encapsulation.....	5.54	
02 83 19 13-0159 EA Hangers, Lead Abatement Encapsulation.....	47.41	
02 83 19 13-0160 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.36	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0161	LF		>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.82	
02 83 19 13-0162	LF		>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.46	
02 83 19 13-0163	LF		>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.02	
02 83 19 13-0164	EA		Radiators, Lead Abatement Encapsulation.....	202.26	
02 83 19 13-0165	EA		Up To 6' Shutters, Lead Abatement Encapsulation.....	174.79	
02 83 19 13-0166	SF		Siding, Lead Abatement Encapsulation.....	3.05	
02 83 19 13-0167	SF		Up To 12" Soffit, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0168	SF		Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.55	
02 83 19 13-0169	SF		Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0170	SF		Trusses, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0171	SF		Drywall Walls, Lead Abatement Encapsulation.....	1.97	
02 83 19 13-0172	SF		Wood Walls, Lead Abatement Encapsulation.....	2.42	
02 83 19 13-0173	EA		Window Without Grille, Lead Abatement Encapsulation.....	174.99	
02 83 19 13-0174	EA		Window With Grille, Lead Abatement Encapsulation.....	205.62	
02 83 19 13-0175	LF		Frames And Trim, Lead Abatement Encapsulation.....	3.18	
02 83 19 13-0176	LF		Steel Lintels, Lead Abatement Encapsulation.....	3.64	

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

02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.26	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.26	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.27	

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

02 84 16 00-0002	EA		Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	10.96	
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02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.					
02 84 16 00-0004	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.41	
02 84 16 00-0005	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.12	
02 84 16 00-0006	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	6.59	
02 84 16 00-0007	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	15.06	

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

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.					
02 84 16 00-0009	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	3.53	
02 84 16 00-0010	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	5.29	
02 84 16 00-0011	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	9.88	
02 84 16 00-0012	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	22.58	

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

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.					
02 84 33 00-0002	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Non Polychlorinated Biphenyl (PCB).....	2,385.10	
Note: Includes disposal costs.					
02 84 33 00-0003	EA		Removal And Disposal Of Transformers 20 KVA, Non Polychlorinated Biphenyl (PCB).....	3,691.08	
Note: Includes disposal costs.					
02 84 33 00-0004	EA		Removal And Disposal Of Switch, Non Polychlorinated Biphenyl (PCB).....	1,155.86	
02 84 33 00-0005	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB).....	4,301.31	
Note: Includes disposal costs.					
02 84 33 00-0006	EA		Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB).....	1,950.97	
02 84 33 00-0007	EA		Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....	6,694.44	
Note: Includes disposal costs.					

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

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards



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

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

02 87 13 33-0001	Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33) Note: Treat fittings as additional lf of insulation.		
02 87 13 33-0002	Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001) Note: Diameter is outer size of insulation.		
02 87 13 33-0003	Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002) Note: Excludes encased fittings.		
02 87 13 33-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	613.00	
02 87 13 33-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.95	
02 87 13 33-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.22	
02 87 13 33-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.94	
02 87 13 33-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.72	
02 87 13 33-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	9.47	
02 87 13 33-0010	>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)		
02 87 13 33-0011	SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	677.04	
02 87 13 33-0012	LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	30.58	
02 87 13 33-0013	LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.00	
02 87 13 33-0014	LF >500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.07	
02 87 13 33-0015	LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.37	
02 87 13 33-0016	LF >10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.92	
02 87 13 33-0017	Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0018	Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)		
02 87 13 33-0019	SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	645.02	
02 87 13 33-0020	SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.22	
02 87 13 33-0021	SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	10.93	
02 87 13 33-0022	SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	8.46	
02 87 13 33-0023	SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.73	
02 87 13 33-0024	Surfacing Material, Mold Abatement And Disposal (02 87 13 33) Note: e.g. fireproofing, acoustical plaster, etc.		
02 87 13 33-0025	Stucco, Mold Abatement And Disposal (02 87 13 33-0024) Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0026	SET Up To 50 SF, Stucco, Mold Abatement And Disposal	627.24	
02 87 13 33-0027	SF >50 To 500 SF, Stucco, Mold Abatement And Disposal	13.86	
02 87 13 33-0028	SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.57	
02 87 13 33-0029	SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	8.10	
02 87 13 33-0030	SF >10,000 SF, Stucco, Mold Abatement And Disposal	6.27	
02 87 13 33-0031	Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024) Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0032	SET Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	627.24	
02 87 13 33-0033	SF >50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal	13.86	
02 87 13 33-0034	SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal	10.57	
02 87 13 33-0035	SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	8.10	
02 87 13 33-0036	SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	6.27	
02 87 13 33-0037	Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)		
02 87 13 33-0038	SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal.....	662.82	
02 87 13 33-0039	SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal	4.96	
02 87 13 33-0040	SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	4.03	
02 87 13 33-0041	SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.30	
02 87 13 33-0042	SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.56	
02 87 13 33-0043	Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024) Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0044	SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal	645.02	
02 87 13 33-0045	SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal	19.19	
02 87 13 33-0046	SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	14.68	
02 87 13 33-0047	SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	11.27	
02 87 13 33-0048	SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	8.72	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0049	Flooring, Mold Abatement And Disposal (02 87 13 33)	
Note: Includes cove base.		
02 87 13 33-0050	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0051	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)	
Note: Single layer or first of multiple layers.		
02 87 13 33-0052 SET	Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	662.82
02 87 13 33-0053 SF	>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	4.94
For Each Additional Layer, Add		
02 87 13 33-0054 SF	>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	2.98
For Each Additional Layer, Add		
02 87 13 33-0055 SF	>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.95
For Each Additional Layer, Add		
02 87 13 33-0056 SF	>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.62
For Each Additional Layer, Add		
02 87 13 33-0057	Carpet, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0058	Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)	
02 87 13 33-0059 SET	Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	662.82
02 87 13 33-0060 SF	>100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	4.19
02 87 13 33-0061 SF	>500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.82
02 87 13 33-0062 SF	>2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.05
02 87 13 33-0063 SF	>10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	1.69
02 87 13 33-0064	Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)	
02 87 13 33-0065 SET	Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal	662.82
Note: Includes tack strips.		
02 87 13 33-0066 SF	>100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal.....	4.66
Note: Includes tack strips.		
02 87 13 33-0067 SF	>500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal.....	3.53
Note: Includes tack strips.		
02 87 13 33-0068 SF	>2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.90
Note: Includes tack strips.		
02 87 13 33-0069 SF	>10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.35
Note: Includes tack strips.		
02 87 13 33-0070	Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0071 SET	Up To 75 SF, Subflooring, Mold Abatement And Disposal	645.02
02 87 13 33-0072 SF	>75 To 500 SF, Subflooring, Mold Abatement And Disposal.....	5.61
02 87 13 33-0073 SF	>500 To 2,500 SF, Subflooring, Mold Abatement And Disposal	3.77
02 87 13 33-0074 SF	>2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal	2.48
02 87 13 33-0075 SF	>10,000 SF, Subflooring, Mold Abatement And Disposal	1.77
02 87 13 33-0076	Siding, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0077	Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078 SET	Up To 100 SF, Interior Paneling, Mold Abatement And Disposal	662.82
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079 SF	>100 To 500 SF, Interior Paneling, Mold Abatement And Disposal	4.92
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080 SF	>500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal	3.61
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081 SF	>2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal	2.32
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082 SF	>10,000 SF, Interior Paneling, Mold Abatement And Disposal	1.89
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)	
02 87 13 33-0084 SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	662.82
02 87 13 33-0085 SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.99
02 87 13 33-0086 SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	4.32
02 87 13 33-0087 SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.07
02 87 13 33-0088 SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.82
02 87 13 33-0089	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0090	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)	
02 87 13 33-0091 SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	677.04
02 87 13 33-0092 CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	24.74
02 87 13 33-0093 CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	17.91
02 87 13 33-0094 CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	14.50
02 87 13 33-0095 CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	12.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0096 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.74	
02 87 13 33-0097 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.28	
02 87 13 33-0098 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0099 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098) Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100 SET Up To 100 LF, Wood Studs, Mold Abatement And Disposal	331.39	
02 87 13 33-0101 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal	2.74	
02 87 13 33-0102 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	2.11	
02 87 13 33-0103 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	1.69	
02 87 13 33-0104 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal	1.35	
02 87 13 33-0105 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098) Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106 SET Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal	662.82	
02 87 13 33-0107 SF >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	8.10	
02 87 13 33-0108 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	4.08	
02 87 13 33-0109 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.07	
02 87 13 33-0110 SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.82	
02 87 13 33-0111 Caulking, Mold Abatement And Disposal (02 87 13 33-0098)		
02 87 13 33-0112 SET Up To 20 LF, Caulking, Mold Abatement And Disposal	149.10	
02 87 13 33-0113 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	3.02	
02 87 13 33-0114 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.17	
02 87 13 33-0115 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.66	
02 87 13 33-0116 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.24	
02 87 13 33-0117 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.01	
02 87 13 33-0118 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.88	
02 87 13 33-0119 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)		
02 87 13 33-0120 CSF Wipe Down Floors With Mild Bleach Solution	16.45	
For >25 To 50, Deduct	-1.64	
For >50 To 200, Deduct	-4.11	
For >200, Deduct	-6.57	
02 87 13 33-0121 CSF Wipe Down Walls With Mild Bleach Solution	19.35	
For >25 To 50, Deduct	-1.93	
For >50 To 200, Deduct	-4.83	
For >200, Deduct	-7.73	
02 87 13 33-0122 CSF Wipe Down Ceilings With Mild Bleach Solution	22.02	
For >25 To 50, Deduct	-2.20	
For >50 To 200, Deduct	-5.50	
For >200, Deduct	-8.80	
02 87 13 33-0123 CSF Wipe Down Countertops With Mild Bleach Solution	17.95	
For >25 To 50, Deduct	-1.79	
02 87 13 33-0124 CSF Wipe Down Other Surfaces With Mild Bleach Solution	22.77	
For >25 To 50, Deduct	-2.28	
For >50 To 200, Deduct	-5.69	
For >200, Deduct	-9.10	
02 87 13 33-0125 Cabinets (02 87 13 33-0098)		
02 87 13 33-0126 SET Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	822.50	
02 87 13 33-0127 LF >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal	85.78	
02 87 13 33-0128 LF >20 LF, Base Cabinet, Mold Abatement And Disposal	68.09	
02 87 13 33-0129 SET Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal	694.43	
02 87 13 33-0130 LF >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	65.91	
02 87 13 33-0131 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal	48.20	
02 87 16 Excrement Removal (02 87) Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal (02 87 16)		
02 87 16 13-0001 Bird Waste Removal (02 87 16 13) Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	591.66	
For Work In Restricted Working Space, Add	177.50	
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	9.86	
For Work In Restricted Working Space, Add	2.96	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	8.97 2.69	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	8.15 2.45	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	7.41 2.22	
02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)		
02 87 19 00-0001 Temporary Barriers (02 87 19)		
02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Panels are opal or transparent. Includes self leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.		
02 87 19 00-0003 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	837.09	
02 87 19 00-0004 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	794.84	
02 87 19 00-0005 EA 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	625.85	
02 87 19 00-0006 EA 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1).....	724.43	
02 87 19 00-0007 EA 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005).....	383.34	
02 87 19 00-0008 EA 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006).....	411.51	
02 87 19 00-0009 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,280.71	
02 87 19 00-0010 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,421.54	
02 87 19 00-0011 EA 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,703.20	
02 87 19 00-0012 EA 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004).....	283.33	
02 87 19 00-0013 EA 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	234.03	
02 87 19 00-0014 EA 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	234.03	
02 87 19 00-0015 EA Closure Strips (Edge Guard 3003)..... Note: To seal panels to existing walls	16.28	
02 87 19 00-0016 EA Digital Differential Pressure Gauge Kit (Edge Guard 3005).....	392.98	
02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal and disposal in approved landfill after use.		
02 87 19 00-0018 SF 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.55	
02 87 19 00-0019 SF 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.73	
02 87 19 00-0020 SF 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	0.99	
02 87 19 00-0021 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.64	
02 87 19 00-0022 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.82	
02 87 19 00-0023 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	1.08	
02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0025 SF Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.08	
02 87 19 00-0026 SF 1/2" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.09	
02 87 19 00-0027 SF 3/4" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.76	
02 87 19 00-0028 Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0029 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.11	
02 87 19 00-0030 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	8.39	
02 87 19 00-0031 SF 5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.23	
02 87 19 00-0032 SF 5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	8.62	
02 87 19 00-0033 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	3.61	
02 87 19 00-0034 Isolation Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0035 GSF Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control..... Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.	23.73	
02 87 19 00-0036 GSF Relocate Tent Construction To Different Area.....	2.85	
02 87 19 00-0037 Plexiglass Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0038 SF 3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	21.11	
02 87 19 00-0039 SF 1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	24.93	
02 87 19 00-0040 SF 3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	35.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0041 PR Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control.....	1,214.80	
Note: Excludes gloves.		
02 87 19 00-0042 PR Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	434.92	
Note: For installation in glove iris port.		
02 87 19 00-0043 PR Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	689.51	
Note: For installation in glove iris port.		
02 87 19 00-0044 EA 5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease.....	132.81	
Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).		
02 87 19 00-0045 Temporary Portable And Mobile Trailers (02 87 19)		
02 87 19 00-0046 Trailer Delivery (02 87 19 00-0045)		
02 87 19 00-0047 EA Deliver Trailer Within 25 Miles.....	1,074.43	
02 87 19 00-0048 Portable And Mobile Trailers, Purchase (02 87 19 00-0045)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049 EA 8' x 24' Mobile Trailer With Toilet, Purchase.....	10,514.95	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0050 EA 8' x 32' Mobile Trailer With Toilet, Purchase.....	14,851.73	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0051 EA 10' x 36' Mobile Trailer With Toilet, Purchase.....	21,184.15	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0052 EA 10' x 44' Mobile Trailer With Toilet, Purchase.....	26,465.42	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0053 EA 10' x 50' Mobile Trailer With Toilet, Purchase.....	30,086.66	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0054 EA 12' x 50' Mobile Trailer With Toilet, Purchase.....	31,634.28	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0055 EA 12' x 60' Mobile Trailer With Toilet, Purchase.....	35,199.10	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0056 Accessories For Portable And Mobile Trailers (02 87 19 00-0045)		
02 87 19 00-0057 Skirting (02 87 19 00-0056)		
Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058 SF 1'-8" High Vinyl Covered Skirt.....	4.84	2.00
02 87 19 00-0059 SF 3' High Vinyl Covered Skirt.....	7.18	3.30
02 87 19 00-0060 Aluminum Modular Access Ramp (02 87 19 00-0056)		
Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
02 87 19 00-0061 EA Up To 35" High, Aluminum Modular Access Ramp.....	3,077.29	38.32
02 87 19 00-0062 Aluminum Modular Stairs (02 87 19 00-0056)		
Note: Excludes earthwork		
02 87 19 00-0063 EA Aluminum Steps For Mobile Trailers.....	856.51	
02 87 19 00-0064 Decontamination Chambers For Bio-Hazard And Infectious Disease Control (02 87 19)		
Note: Includes removal after use.		
02 87 19 00-0065 EA Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control.....	868.88	
Note: Includes connection to negative air system.		
02 87 19 00-0066 EA Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control.....	1,025.42	
Note: Includes connection to negative air system.		
02 87 19 00-0067 EA Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control.....	541.28	
Note: Includes connection to negative air system.		
02 87 19 00-0068 Bio-Hazard And Infectious Disease Control Cleaning, Level 2 (02 87 19)		
Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069 Bio-Hazard And Infectious Disease Control Cleaning Mobilization (02 87 19 00-0068)		
02 87 19 00-0070 EA Bio-Hazard And Infectious Disease Control Mobilization And Set-Up.....	373.86	
Note: Mobilization and set-up minimum for each site location.		

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

02 87 19 00-0071		Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces <small>(02 87 19 00-0068)</small>	
		Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces	
02 87 19 00-0072	CSF	Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	27.71
		For >25 To 50, Deduct	-2.77
		For >50 To 200, Deduct	-5.54
		For >200, Deduct	-8.31
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-5.54
		For Level 3 Biohazard Cleaning, Add	9.14
02 87 19 00-0073	CSF	Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.60
		For >25 To 50, Deduct	-3.26
		For >50 To 200, Deduct	-6.52
		For >200, Deduct	-9.77
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-6.52
		For Level 3 Biohazard Cleaning, Add	10.75
02 87 19 00-0074	CSF	Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	37.09
		For >25 To 50, Deduct	-3.71
		For >50 To 200, Deduct	-7.41
		For >200, Deduct	-11.12
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-7.41
		For Level 3 Biohazard Cleaning, Add	12.23
02 87 19 00-0075	CSF	Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	30.23
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For >5 To 10, Deduct	-1.51
		For >10 To 50, Deduct	-3.02
		For >50, Deduct	-6.04
		For Level 1 Biohazard Cleaning, Deduct	-6.04
		For Level 3 Biohazard Cleaning, Add	9.97
02 87 19 00-0076	CSF	Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	38.36
		For >25 To 50, Deduct	-3.83
		For >50 To 200, Deduct	-7.67
		For >200, Deduct	-11.50
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-7.67
		For Level 3 Biohazard Cleaning, Add	12.65
02 87 19 00-0077		Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials <small>(02 87 19 00-0068)</small>	
		Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect	
02 87 19 00-0078	EA	Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	71.63
		For Level 1 Biohazard Cleaning, Deduct	-14.32
		For Level 3 Biohazard Cleaning, Add	23.63
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0079	EA	Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.87
		For Level 1 Biohazard Cleaning, Deduct	-6.57
		For Level 3 Biohazard Cleaning, Add	10.84
		For Cleaning Surfaces With Goldshield® GS5, Add	3.91
02 87 19 00-0080	EA	Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	115.39
		For Level 1 Biohazard Cleaning, Deduct	-23.07
		For Level 3 Biohazard Cleaning, Add	38.07
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0081	EA	Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	7.11
		For Level 1 Biohazard Cleaning, Deduct	-1.42
		For Level 3 Biohazard Cleaning, Add	2.34
		For Cleaning Surfaces With Goldshield® GS5, Add	1.17
02 87 19 00-0082	EA	Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	106.38
		Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers	
		For Level 1 Biohazard Cleaning, Deduct	-21.27
		For Level 3 Biohazard Cleaning, Add	35.10
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0083	EA	Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	11.36
		For Level 1 Biohazard Cleaning, Deduct	-2.27
		For Level 3 Biohazard Cleaning, Add	3.74
		For Cleaning Surfaces With Goldshield® GS5, Add	1.17
02 87 19 00-0084		Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork <small>(02 87 19 00-0068)</small>	
02 87 19 00-0085	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	4.18
		For Level 1 Biohazard Cleaning, Deduct	-0.83
		For Level 3 Biohazard Cleaning, Add	1.37
02 87 19 00-0086	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	5.25
		For Level 1 Biohazard Cleaning, Deduct	-1.04
		For Level 3 Biohazard Cleaning, Add	1.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0087 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	7.02	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.38	
<i>For Level 3 Biohazard Cleaning, Add</i>	2.28	
02 87 19 00-0088 LF >8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	9.92	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.95	
<i>For Level 3 Biohazard Cleaning, Add</i>	3.21	
02 87 19 00-0089 EA Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	186.95	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-37.39	
<i>For Level 3 Biohazard Cleaning, Add</i>	61.69	
02 87 19 00-0090 SF Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....	13.01	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.60	
<i>For Level 3 Biohazard Cleaning, Add</i>	4.29	
02 87 19 00-0091 EA Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning.....	124.64	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-24.92	
<i>For Level 3 Biohazard Cleaning, Add</i>	41.12	
02 87 19 00-0092 EA Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	373.88	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-74.77	
<i>For Level 3 Biohazard Cleaning, Add</i>	123.37	
02 87 19 00-0093 EA Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning.....	31.18	
Note: Includes removal and reinstallation.		
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-6.23	
<i>For Level 3 Biohazard Cleaning, Add</i>	10.28	
02 87 19 00-0094 SF Apply Sporicidin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.55	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0095 SF Apply Goldshield® GS5 Antimicrobial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.62	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0096 Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097 DAY Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	141.76	
02 87 19 00-0098 WK Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	603.81	
02 87 19 00-0099 MO Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	1,690.66	
02 87 19 00-0100 DAY Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	125.69	
02 87 19 00-0101 WK Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	345.65	
02 87 19 00-0102 MO Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	942.68	
02 87 19 00-0103 DAY Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	39.65	
02 87 19 00-0104 WK Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	109.03	
02 87 19 00-0105 MO Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	297.36	
02 87 19 00-0106 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	81.38	
02 87 19 00-0107 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	334.24	
02 87 19 00-0108 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	1,009.97	
02 87 19 00-0109 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-Hazard And Infectious Disease Control Clean-up.....	173.27	
Note: Required if over 800 hours operation.		
02 87 19 00-0110 DAY 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	395.20	
02 87 19 00-0111 WK 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	790.40	
02 87 19 00-0112 MO 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,580.80	
02 87 19 00-0113 DAY 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	526.93	
02 87 19 00-0114 WK 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,053.86	
02 87 19 00-0115 MO 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,107.73	
02 87 19 00-0116 DAY 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	789.21	
02 87 19 00-0117 WK 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,578.42	
02 87 19 00-0118 MO 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,156.85	
02 87 19 00-0119 DAY 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,052.28	
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,104.56	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	4,209.13	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,315.35	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,630.70	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	5,261.41	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	113.97	
Note: Includes staking down tent.		
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	227.94	
Note: Includes staking down tent.		
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	683.81	
Note: Includes staking down tent.		
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,367.62	
Note: Includes staking down tent.		
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,279.38	
Note: Includes staking down tent.		
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	86.42	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0131	WK		Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	237.65	
02 87 19 00-0132	MO		Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	648.13	
02 87 19 00-0133			Bio-Hazard And Infectious Disease Control Hauling By Truck <small>(02 87 19)</small> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134	EA		Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	95.76	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.20	
02 87 19 00-0135	EA		Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Clean Up	146.39	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.83	
02 87 19 00-0136	EA		Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	152.24	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.90	
02 87 19 00-0137	EA		Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	161.14	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	2.01	
02 87 19 00-0138			Bio-Hazard And Infectious Disease Control Disposal <small>(02 87 19)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139	CY		Bio-Hazard And Infectious Disease Control Landfill Dump Fee	115.26	
02 87 19 00-0140			BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters <small>(02 87 19)</small> Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141	EA		20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P)	36,664.79	
02 87 19 00-0142	EA		7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST)	3,524.71	
02 87 19 00-0143	EA		Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04)	5,831.98	
02 87 19 00-0144	SF		Sub Flooring For Medical Shelter (AKS-AB846)	5.47	
02 87 19 00-0145	EA		Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5)	1,600.76	
02 87 19 00-0146	EA		Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5)	26,218.36	
02 87 19 00-0147	EA		3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915)	913.85	
02 87 19 00-0148	EA		Negative Pressure Isolation (NPI) System (AK-NPIS-5)	41,267.27	
			Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case		
02 87 19 00-0149	EA		6' Step Ladder (AKS-AC595)	250.02	
02 87 19 00-0150	EA		10 Lbs Sledgehammer (AKS-AA268)	75.06	
02 87 19 00-0151			Bio-Hazard And Infectious Disease Time And Material Tasks <small>(02 87 19)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0152			Bio-Hazard And Infectious Disease Control Labor <small>(02 87 19 00-0151)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153	HR		General Laborer For Bio-Hazard And Infectious Disease Control Clean Up	93.96	
02 87 19 00-0154	HR		Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up	139.02	
02 87 19 00-0155	HR		Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up	101.25	
02 87 19 00-0156	HR		Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up	121.74	
02 87 19 00-0157	HR		Project Manager For Bio-Hazard And Infectious Disease Control Clean Up	133.89	
02 87 19 00-0158			Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment <small>(02 87 19 00-0151)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159	EA		Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.13	
02 87 19 00-0160	EA		Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	21.48	
02 87 19 00-0161	PR		Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.92	
02 87 19 00-0162	EA		Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	101.30	
02 87 19 00-0163	EA		Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	45.86	
02 87 19 00-0164	EA		Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	309.05	
			Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension		
02 87 19 00-0165	EA		14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	42.25	
			Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010		
02 87 19 00-0166	EA		19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	76.75	
			Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0167 BOX Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	23.79	
02 87 19 00-0168 EA Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	20.31	
02 87 19 00-0169 EA Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	2,065.76	
Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (AfI), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly		
02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables (02 87 19 00-0151)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.		
02 87 19 00-0171 GAL Bleach For Bio-Hazard And Infectious Disease Control Clean-up	10.23	
02 87 19 00-0172 EA N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up	3.40	
02 87 19 00-0173 GAL Disinfectant/Antimicrobial For Bio-Hazard And Infectious Disease Control Clean Up	100.27	
02 87 19 00-0174 GAL Goldshield® G55 Antimicrobial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up	281.48	
Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days		
02 87 19 00-0175 QT Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up	10.63	
02 87 19 00-0176 EA Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up	5.01	
02 87 19 00-0177 ROL Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up	13.05	
02 87 19 00-0178 EA UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up	61.50	
02 87 19 00-0179 ROL Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up	52.60	
02 87 19 00-0180 LB Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up	7.75	
02 87 19 00-0181 EA Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up	15.66	
02 87 19 00-0182 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up	161.91	
02 89 Hazmat Ancillary Tasks and Support (02 80)		
02 89 00 00-0001 Barriers And Protection (02 89)		
Note: Includes removal and disposal after use.		
02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)		
See CSI section 01 56 16 00-0031 for temporary stud walls.		
02 89 00 00-0003 Cleaning Surfaces (02 89 00 00-0001)		
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.		
02 89 00 00-0004 SF Up To 100 SF, Clean Non-Asbestos Surface	1.44	
02 89 00 00-0005 SF >100 To 500 SF, Clean Non-Asbestos Surface	1.01	
02 89 00 00-0006 SF >500 To 1,000 SF, Clean Non-Asbestos Surface	0.66	
02 89 00 00-0007 SF >1,000 SF, Clean Non-Asbestos Surface	0.51	
02 89 00 00-0008 Hazmat Containment Construction (02 89 00 00-0001)		
02 89 00 00-0009 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.36	
02 89 00 00-0010 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.48	
02 89 00 00-0011 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.63	
02 89 00 00-0012 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.66	
02 89 00 00-0013 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.84	
02 89 00 00-0014 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.10	
02 89 00 00-0015 Decontamination Chambers (02 89)		
Note: Includes removal after use.		
02 89 00 00-0016 EA 3 Stage Portable Personnel Decontamination Wash Facility	878.59	
Note: Includes connection to negative air system.		
02 89 00 00-0017 EA 5 Stage Portable Personnel Decontamination Wash Facility	1,037.09	
Note: Includes connection to negative air system.		
02 89 00 00-0018 EA Portable Waste Decontamination Unit	549.06	
Note: Includes connection to negative air system.		
<i>For Dismantling And Relocation To A Different Area, Add</i>	369.61	
02 90 Disaster Recovery (02)		
Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.		
02 90 50 Cleaning and Disaster Clean-up (02 90)		
02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal (02 90 50)		
Note: For materials not requiring mold abatement.		
02 90 50 00-0002 SY Wet Broadloom Carpet Removal For Disaster Clean-up	23.18	
02 90 50 00-0003 SY Wet Carpet Tile Removal For Disaster Clean-up	5.64	
02 90 50 00-0004 SF Wet Batt Insulation Removal For Disaster Clean-up	0.47	
02 90 50 00-0005 SF Wet Ceiling Tile Removal For Disaster Clean-up	0.56	
02 90 50 00-0006 SF Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.55	
02 90 50 00-0007 SF Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.86	

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

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



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

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up	15.45	
For Medium Clean, Add	6.49	
For Heavy Clean, Add	20.09	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up	59.30	
For Medium Clean, Add	24.91	
For Heavy Clean, Add	77.09	
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up	5.56	
For Medium Clean, Add	2.34	
For Heavy Clean, Add	7.23	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up.....	38.51	
For Medium Clean, Add	16.17	
For Heavy Clean, Add	50.06	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	34.29	
For Medium Clean, Add	14.40	
For Heavy Clean, Add	44.58	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up	22.86	
For Medium Clean, Add	9.60	
For Heavy Clean, Add	29.72	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up.....	24.71	
For Medium Clean, Add	10.38	
For Heavy Clean, Add	32.12	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up.....	32.12	
For Medium Clean, Add	13.49	
For Heavy Clean, Add	41.76	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up.....	22.54	
For Medium Clean, Add	9.47	
For Heavy Clean, Add	29.30	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up	14.83	
For Medium Clean, Add	6.23	
For Heavy Clean, Add	19.28	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up	6.79	
For Medium Clean, Add	2.85	
For Heavy Clean, Add	8.83	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up	5.25	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.83	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up.....	1.85	
For Medium Clean, Add	0.78	
For Heavy Clean, Add	2.41	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up.....	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up.....	0.23	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up	0.28	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up.....	175.39	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up.....	232.60	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up.....	143.67	
02 90 50 00-0086 Water Disaster Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up	0.67	
02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up	1.19	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.37	
02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up.....	0.45	
02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up	0.74	
02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up	1.16	
02 90 50 00-0093 SF Tear Out Wet Non Salvageable Carpet For Disaster Clean-up	0.36	
02 90 50 00-0094 SF Tear Out Wet Non Salvageable Carpet, Black Water For Disaster Clean-up	0.43	
02 90 50 00-0095 SF Tear Out Wet Non Salvageable Glue Down Carpet For Disaster Clean-up.....	0.65	
02 90 50 00-0096 SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water For Disaster Clean-up.....	0.94	
02 90 50 00-0097 SF Tear Out Vinyl Flooring For Disaster Clean-up	0.89	
02 90 50 00-0098 SF Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.31	
02 90 50 00-0099 SF Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.39	
02 90 50 00-0100 SF Tear Out Laminated Wood Flooring For Disaster Clean-up.....	1.67	
02 90 50 00-0101 SF Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up.....	2.45	
02 90 50 00-0102 SF Tear Out Wet Ceiling Tile For Disaster Clean-up.....	0.28	
02 90 50 00-0103 SF Tear Out Batt Insulation For Disaster Clean-up.....	0.28	
02 90 50 00-0104 SF Tear Out Wet Gypsum Board For Disaster Clean-up.....	0.48	
02 90 50 00-0105 SF Apply Antimicrobial Agent For Disaster Clean-up.....	0.26	
02 90 50 00-0106 SF High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up	0.35	
02 90 50 00-0107 Board Up And Tarp Up (02 90 50)		
02 90 50 00-0108 SF Polyethylene Tarp On Roof For Disaster Clean-up.....	0.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0109 SF Temporary Plywood On Roof For Disaster Clean-up.....	1.49	
02 90 50 00-0110 SF Temporary Plywood On Wall Or Windows For Disaster Clean-up.....	1.86	
02 90 50 00-0111 Minimum Charges (02 90 50)		
02 90 50 00-0112 EA Disaster Cleaning Minimum Charge	1,127.92	
02 90 50 00-0113 EA Disaster Water Extraction Minimum Charge.....	242.67	
02 90 50 00-0114 EA Disaster Carpet Cleaning Minimum Charge.....	225.83	
02 90 50 00-0115 Document Restoration (02 90 50)		
02 90 50 00-0116 EA Book Rebinding, Each For Document Restoration	116.62	
02 90 50 00-0117 EA Book Recasing, Each For Document Restoration.....	58.30	
02 90 50 00-0118 EA Boxes-MCS, 1.2 CF For Document Restoration.....	7.34	
02 90 50 00-0119 EA Boxes-MCS, 2.0 CF For Document Restoration.....	8.10	
02 90 50 00-0120 EA Boxes Bankers For Document Restoration.....	18.63	
02 90 50 00-0121 EA Boxes Standard Packout For Document Restoration	4.70	
02 90 50 00-0122 EA Boxes X Ray For Document Restoration.....	11.67	
02 90 50 00-0123 EA CD Scanning and Diagnostics, Each For Document Restoration	11.67	
02 90 50 00-0124 EA Cleaning Antique Books, Each For Document Restoration	349.85	
02 90 50 00-0125 EA Cleaning Catheter Roll, Per Roll For Document Restoration	46.63	
02 90 50 00-0126 EA Cleaning CD And DVD, Per Disc For Document Restoration	4.69	
02 90 50 00-0127 EA Cleaning Level 1 - Blue Prints, Each For Document Restoration.....	3.28	
02 90 50 00-0128 CF Cleaning Level 1 - Document Per CF For Document Restoration	101.58	
02 90 50 00-0129 EA Cleaning Level 1 - Linen, Each For Document Restoration	3.28	
02 90 50 00-0130 EA Cleaning Level 1 - Mylar, Each For Document Restoration.....	3.28	
02 90 50 00-0131 EA Cleaning Level 2 - Blue Print, Each For Document Restoration	4.07	
02 90 50 00-0132 CF Cleaning Level 2 - Document Per CF For Document Restoration	152.23	
02 90 50 00-0133 EA Cleaning Level 2 - Linen, Each For Document Restoration	4.07	
02 90 50 00-0134 EA Cleaning Level 2 - Mylar, Each For Document Restoration	4.07	
02 90 50 00-0135 EA Cleaning Level 3 - Blue Prints, Each For Document Restoration.....	5.78	
02 90 50 00-0136 CF Cleaning Level 3 - Document Per CF For Document Restoration	203.12	
02 90 50 00-0137 EA Cleaning Level 3 - Linen, Each For Document Restoration	5.78	
02 90 50 00-0138 EA Cleaning Level 3 - Mylar, Each For Document Restoration.....	5.78	
02 90 50 00-0139 EA Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration.....	8.10	
02 90 50 00-0140 EA Cleaning Level 4 - All Fire-Linen, Each For Document Restoration.....	8.10	
02 90 50 00-0141 EA Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration.....	8.10	
02 90 50 00-0142 CF Cleaning Level 4 - Light Fire-Document Per CF For Document Restoration	253.85	
02 90 50 00-0143 EA Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration.....	8.97	
02 90 50 00-0144 CF Cleaning Level 5 - Severe Fire-Document Per CF For Document Restoration.....	380.89	
02 90 50 00-0145 EA Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration	8.97	
02 90 50 00-0146 EA Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration	8.97	
02 90 50 00-0147 EA Cleaning Microfiche Sheets, Each For Document Restoration	3.19	
02 90 50 00-0148 EA Cleaning Microfiche Strips, Each For Document Restoration	0.74	
02 90 50 00-0149 EA Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration	116.62	
02 90 50 00-0150 EA Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration	163.27	
02 90 50 00-0151 EA Cleaning Photographs Negatives, Per Negative For Document Restoration.....	3.19	
02 90 50 00-0152 EA Cleaning Photographs, Each For Document Restoration	0.74	
02 90 50 00-0153 EA Cleaning Record Albums, Each For Document Restoration.....	4.69	
02 90 50 00-0154 EA Cleaning VHS And Beta Tapes-In House, Each For Document Restoration	11.67	
02 90 50 00-0155 EA Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration	46.63	
02 90 50 00-0156 EA Cleaning X Ray 1-1000, Per Film For Document Restoration.....	4.35	
02 90 50 00-0157 EA Cleaning X Ray 1K-5K, Per Film For Document Restoration	3.72	
02 90 50 00-0158 EA Cleaning X Ray 5K-Up, Per Film For Document Restoration.....	2.92	
02 90 50 00-0159 EA Copying Clean Water, Per Page For Document Restoration.....	0.42	
02 90 50 00-0160 EA Copying Greywater Fire, Per Page For Document Restoration	1.26	
02 90 50 00-0161 CF Deodorization, Vapor Tech For Document Restoration	8.02	
02 90 50 00-0162 CF Disinfectant-Fogging For Document Restoration.....	16.35	
02 90 50 00-0163 EA Document Disposal In House No Shredding For Document Restoration.....	62.32	
02 90 50 00-0164 EA Document Disposal In House With Shredding For Document Restoration	17.01	
02 90 50 00-0165 CF Up To 150 CF, Drying-MCS Center For Document Restoration	209.91	
02 90 50 00-0166 CF >150 To 500 CF, Drying-MCS Center For Document Restoration	163.27	
02 90 50 00-0167 CF >500 CF, Drying-MCS Center For Document Restoration.....	139.94	
02 90 50 00-0168 CF >50 To 150 CF, Drying-MCS Center For Document Restoration.....	186.59	
02 90 50 00-0169 CF Up To 500 CF, Drying-Onsite For Document Restoration	349.85	
02 90 50 00-0170 CF >500 CF, Drying-Onsite For Document Restoration	214.61	
02 90 50 00-0171 EA Drying Antique Books, Each For Document Restoration	46.63	
02 90 50 00-0172 EA Drying Blue Prints, Each For Document Restoration	5.83	
02 90 50 00-0173 EA DVD Scanning And Diagnostics, Each For Document Restoration	11.67	
02 90 50 00-0174 EA Freeze Drying (In House) For Document Restoration.....	105.73	
02 90 50 00-0175 EA Freeze Drying (Outside) For Document Restoration.....	90.62	
02 90 50 00-0176 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration	2,492.16	
02 90 50 00-0177 CF >48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration	22.66	
02 90 50 00-0178 EA Minimal Drying Jobs For Document Restoration.....	1,049.73	
02 90 50 00-0179 EA Monthly Storage For Document Restoration.....	195.70	
02 90 50 00-0180 EA Mylar Prints For Document Restoration.....	11.67	
02 90 50 00-0181 CF Ozoning For Document Restoration	7.20	
02 90 50 00-0182 CF Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration	9.12	
02 90 50 00-0183 MO Stabilization Freezer Storage, Per Page-Per Month For Document Restoration	0.11	
02 90 50 00-0184 EA Wood Pallets, Each For Document Restoration.....	25.36	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 55 Emergency Clean-up (02 90)**02 90 55 00-0001****Emergency Clean-up (02 90 55)**

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0002**Emergency Clean-up Labor (02 90 55 00-0001)**

Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0003	HR	Skilled Tradesman For Emergency Clean Up.....	60.72
02 90 55 00-0004	HR	Restoration / Document Laborer For Emergency Clean Up.....	42.50
02 90 55 00-0005	HR	Restoration / Document Supervisor For Emergency Clean Up.....	58.44
02 90 55 00-0006	HR	Restoration / Document Project Manager For Emergency Clean Up.....	95.63
02 90 55 00-0007	HR	Assistant Project Manager For Emergency Clean Up.....	79.70
02 90 55 00-0008	HR	Senior Project Manager For Emergency Clean Up.....	111.57
02 90 55 00-0009	HR	Project Director / Document Consultant / Account Manager For Emergency Clean Up.....	159.39
02 90 55 00-0010	HR	Equipment Technician For Emergency Clean Up.....	116.89
02 90 55 00-0011	HR	Mold Remediation Laborer For Emergency Clean Up.....	58.19
02 90 55 00-0012	HR	Mold Remediation Supervisor For Emergency Clean Up.....	79.70
02 90 55 00-0013	HR	Administrative Personnel For Emergency Clean Up.....	37.19
02 90 55 00-0014	HR	Project Accountant For Emergency Clean Up.....	60.72
02 90 55 00-0015	HR	Biohazard Technician For Emergency Clean Up.....	84.38
02 90 55 00-0016	HR	Biohazard Supervisor For Emergency Clean Up.....	101.45
02 90 55 00-0017	HR	Health And Safety Officer For Emergency Clean Up.....	91.08
02 90 55 00-0018	HR	Resource And Logistics Coordinator For Emergency Clean Up.....	65.78
02 90 55 00-0019	HR	Loss Control Specialist For Emergency Clean Up.....	63.76
02 90 55 00-0020	HR	Moisture Control Specialist For Emergency Clean Up.....	52.62
02 90 55 00-0021	HR	Mobilization Support For Emergency Clean Up.....	32.38

02 90 55 00-0022**Emergency Clean-up Equipment (02 90 55 00-0001)**

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0023**General Emergency Clean-up Equipment (02 90 55 00-0022)**

02 90 55 00-0024	DAY	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	141.76
02 90 55 00-0025	WK	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	540.80
02 90 55 00-0026	MO	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	1,480.64
02 90 55 00-0027	DAY	13" Floor Buffer Rental For Emergency Clean-up.....	47.58
02 90 55 00-0028	WK	13" Floor Buffer Rental For Emergency Clean-up.....	133.61
02 90 55 00-0029	MO	13" Floor Buffer Rental For Emergency Clean-up.....	368.85
02 90 55 00-0030	DAY	17" Floor Buffer Rental For Emergency Clean-up.....	92.21
02 90 55 00-0031	WK	17" Floor Buffer Rental For Emergency Clean-up.....	235.24
02 90 55 00-0032	MO	17" Floor Buffer Rental For Emergency Clean-up.....	555.16
02 90 55 00-0033	DAY	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	508.11
02 90 55 00-0034	WK	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	1,364.38
02 90 55 00-0035	MO	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	3,801.44
02 90 55 00-0036	DAY	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	1,147.96
02 90 55 00-0037	WK	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	3,029.86
02 90 55 00-0038	MO	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	8,167.45
02 90 55 00-0039	DAY	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	82.80
02 90 55 00-0040	WK	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	235.24
02 90 55 00-0041	MO	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	809.22
02 90 55 00-0042	DAY	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	77.16
02 90 55 00-0043	WK	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	207.01
02 90 55 00-0044	MO	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	536.34
02 90 55 00-0045	DAY	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	123.45
02 90 55 00-0046	WK	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	352.29
02 90 55 00-0047	MO	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	984.61
02 90 55 00-0048	DAY	Truck Mounted Extractor Rental For Emergency Clean-up.....	774.97
02 90 55 00-0049	WK	Truck Mounted Extractor Rental For Emergency Clean-up.....	2,324.92
02 90 55 00-0050	MO	Truck Mounted Extractor Rental For Emergency Clean-up.....	6,974.75
02 90 55 00-0051	DAY	16" Chain Saw Rental For Emergency Clean-up.....	90.33
02 90 55 00-0052	WK	16" Chain Saw Rental For Emergency Clean-up.....	203.25
02 90 55 00-0053	MO	16" Chain Saw Rental For Emergency Clean-up.....	541.99
02 90 55 00-0054	DAY	20" Chain Saw Rental For Emergency Clean-up.....	112.91
02 90 55 00-0055	WK	20" Chain Saw Rental For Emergency Clean-up.....	254.06
02 90 55 00-0056	MO	20" Chain Saw Rental For Emergency Clean-up.....	677.48
02 90 55 00-0057	EA	Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up.....	84.69
02 90 55 00-0058	DAY	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	120.44
02 90 55 00-0059	WK	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	329.33
02 90 55 00-0060	MO	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	922.13
02 90 55 00-0061	DAY	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	146.79
02 90 55 00-0062	WK	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	498.70
02 90 55 00-0063	MO	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	950.36
02 90 55 00-0064	DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up.....	134.80
02 90 55 00-0065	DAY	Extension Cords - 220 Volt For Emergency Clean-up.....	47.05
02 90 55 00-0066	DAY	Extension Cords - 220 Volt Converter Box For Emergency Clean-up.....	28.23
02 90 55 00-0067	DAY	Demolition Cart, 7 Yard For Emergency Clean-up.....	71.37
02 90 55 00-0068	EA	Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up.....	141.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0069 DAY Dry-Ice Blasting System For Emergency Clean-up.....	1,524.11	
02 90 55 00-0070 DAY Fogger - Mist For Emergency Clean-up.....	39.65	
02 90 55 00-0071 DAY Fogger - Electric Thermal For Emergency Clean-up.....	57.09	
02 90 55 00-0072 DAY Fogger - Gas Power Thermal For Emergency Clean-up.....	153.36	
02 90 55 00-0073 EA Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up.....	188.80	
02 90 55 00-0074 DAY Hand Trucks/Dollies For Emergency Clean-up.....	22.58	
02 90 55 00-0075 DAY Heat Gun - Shrink Wrap For Emergency Clean-up.....	117.42	
02 90 55 00-0076 DAY High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up.....	166.14	
Note: Includes all filters.		
02 90 55 00-0077 DAY Ladder For Emergency Clean-up.....	31.99	
02 90 55 00-0078 DAY Lights - Demo, Drop, Stand, String For Emergency Clean-up.....	28.55	
02 90 55 00-0079 DAY Lights - Wobble For Emergency Clean-up.....	34.89	
02 90 55 00-0080 DAY Moisture Meter For Emergency Clean-up.....	47.58	
02 90 55 00-0081 DAY Nail Gun For Emergency Clean-up.....	84.69	
02 90 55 00-0082 DAY Ozone Generator For Emergency Clean-up.....	198.24	
02 90 55 00-0083 DAY PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up.....	112.91	
02 90 55 00-0084 DAY Portable Generator, Up To 7,500 Watt For Emergency Clean-up.....	158.59	
02 90 55 00-0085 DAY Pressure Washer, Hot For Emergency Clean-up.....	237.89	
02 90 55 00-0086 DAY Pressure Washer, Cold For Emergency Clean-up.....	158.59	
02 90 55 00-0087 DAY Scaffolding - Per Section For Emergency Clean-up.....	122.32	
02 90 55 00-0088 DAY Small Tools - Tool Box For Emergency Clean-up.....	47.05	
02 90 55 00-0089 DAY Soda Blasting Equipment For Emergency Clean-up.....	1,512.37	
02 90 55 00-0090 DAY Sprayer - Hudson For Emergency Clean-up.....	15.06	
02 90 55 00-0091 DAY 0.47 GPM, Airless Paint Sprayer For Emergency Clean-up.....	127.60	
02 90 55 00-0092 DAY Storage Space (Per SF Per Day) For Emergency Clean-up.....	3.65	
02 90 55 00-0093 DAY Submersible Pump For Emergency Clean-up.....	39.65	
02 90 55 00-0094 DAY Trash Pump - 2" Gas Powered For Emergency Clean-up.....	217.62	
02 90 55 00-0095 DAY Vehicle, Pick-up, SUV, Car For Emergency Clean-up.....	108.03	
02 90 55 00-0096 DAY Vehicle, Van For Emergency Clean-up.....	176.13	
02 90 55 00-0097 DAY 16' Or 24' Box Truck Vehicle For Emergency Clean-up.....	213.01	
Note: Includes Mileage		
02 90 55 00-0098 DAY Trailer - Refrigerated 40' Storage For Emergency Clean-up.....	234.06	
02 90 55 00-0099 DAY Utility Trailer For Emergency Clean-up.....	194.92	
Note: Includes Mileage		
02 90 55 00-0100 DAY Truck Mount, Per Wand Extraction For Emergency Clean-up.....	879.08	
02 90 55 00-0101 DAY High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up.....	39.65	
02 90 55 00-0102 DAY Vacuum - Shop Vacuum For Emergency Clean-up.....	39.65	
02 90 55 00-0103 DAY Vacuum - Commercial For Emergency Clean-up.....	118.94	
02 90 55 00-0104 DAY 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	134.80	
02 90 55 00-0105 DAY Vacuum - Upright For Emergency Clean-up.....	25.83	
02 90 55 00-0106 DAY Zip Walls (Per 2 Poles) For Emergency Clean-up.....	39.65	
02 90 55 00-0107 DAY 2 Way Radio For Emergency Clean-up.....	31.72	
02 90 55 00-0108	Technical/Electronics Restoration Equipment	<i>(02 90 55 00-0022)</i>
02 90 55 00-0109 DAY Computer - Diagnostic For Emergency Clean-up.....	47.05	
02 90 55 00-0110 WK Computer - Diagnostic For Emergency Clean-up.....	129.38	
02 90 55 00-0111 MO Computer - Diagnostic For Emergency Clean-up.....	352.86	
02 90 55 00-0112 DAY Convection Oven - Large For Emergency Clean-up.....	683.38	
02 90 55 00-0113 WK Convection Oven - Large For Emergency Clean-up.....	1,879.31	
02 90 55 00-0114 MO Convection Oven - Large For Emergency Clean-up.....	5,125.38	
02 90 55 00-0115 DAY Convection Oven - Small For Emergency Clean-up.....	169.37	
02 90 55 00-0116 WK Convection Oven - Small For Emergency Clean-up.....	465.77	
02 90 55 00-0117 MO Convection Oven - Small For Emergency Clean-up.....	1,270.28	
02 90 55 00-0118 DAY Convection Oven - Vacuum For Emergency Clean-up.....	975.37	
02 90 55 00-0119 WK Convection Oven - Vacuum For Emergency Clean-up.....	2,682.26	
02 90 55 00-0120 MO Convection Oven - Vacuum For Emergency Clean-up.....	7,315.27	
02 90 55 00-0121 DAY Decontamination Booth For Emergency Clean-up.....	806.28	
02 90 55 00-0122 WK Decontamination Booth For Emergency Clean-up.....	2,217.28	
02 90 55 00-0123 MO Decontamination Booth For Emergency Clean-up.....	6,047.13	
02 90 55 00-0124 DAY DI Water System For Emergency Clean-up.....	62.62	
02 90 55 00-0125 WK DI Water System For Emergency Clean-up.....	172.22	
02 90 55 00-0126 MO DI Water System For Emergency Clean-up.....	469.68	
02 90 55 00-0127 DAY ESD Bench Workstation For Emergency Clean-up.....	38.36	
02 90 55 00-0128 WK ESD Bench Workstation For Emergency Clean-up.....	105.48	
02 90 55 00-0129 MO ESD Bench Workstation For Emergency Clean-up.....	287.68	
02 90 55 00-0130 DAY Heater/Enclosure Control System For Emergency Clean-up.....	28.23	
02 90 55 00-0131 WK Heater/Enclosure Control System For Emergency Clean-up.....	77.63	
02 90 55 00-0132 MO Heater/Enclosure Control System For Emergency Clean-up.....	211.71	
02 90 55 00-0133 DAY Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	98.63	
02 90 55 00-0134 WK Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	271.24	
02 90 55 00-0135 MO Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	739.75	
02 90 55 00-0136 DAY Micro-Blaster/Dust Collector For Emergency Clean-up.....	423.43	
02 90 55 00-0137 WK Micro-Blaster/Dust Collector For Emergency Clean-up.....	1,164.43	
02 90 55 00-0138 MO Micro-Blaster/Dust Collector For Emergency Clean-up.....	3,175.71	
02 90 55 00-0139 DAY Mobile Laboratory For Emergency Clean-up.....	1,176.19	
02 90 55 00-0140 WK Mobile Laboratory For Emergency Clean-up.....	3,234.52	
02 90 55 00-0141 MO Mobile Laboratory For Emergency Clean-up.....	8,821.41	
02 90 55 00-0142 DAY Nitrogen Enclosure Cabinet For Emergency Clean-up.....	22.58	
02 90 55 00-0143 WK Nitrogen Enclosure Cabinet For Emergency Clean-up.....	62.10	
02 90 55 00-0144 MO Nitrogen Enclosure Cabinet For Emergency Clean-up.....	169.37	

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

02 90 55 00-0145	DAY	Odell Cleaning Station For Emergency Clean-up	658.66	
02 90 55 00-0146	WK	Odell Cleaning Station For Emergency Clean-up	1,811.33	
02 90 55 00-0147	MO	Odell Cleaning Station For Emergency Clean-up	4,939.99	
02 90 55 00-0148	DAY	Parts Washer For Emergency Clean-up	47.05	
02 90 55 00-0149	WK	Parts Washer For Emergency Clean-up	129.38	
02 90 55 00-0150	MO	Parts Washer For Emergency Clean-up	352.86	
02 90 55 00-0151	DAY	Ultrasonic Cleaning System For Emergency Clean-up	293.55	
02 90 55 00-0152	WK	Ultrasonic Cleaning System For Emergency Clean-up	807.26	
02 90 55 00-0153	MO	Ultrasonic Cleaning System For Emergency Clean-up	2,201.62	
02 90 55 00-0154	DAY	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	125.69	
02 90 55 00-0155	WK	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	345.65	
02 90 55 00-0156	MO	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	942.68	

02 90 55 00-0157 Drying/Dehumidification Equipment (02 90 55 00-0022)

02 90 55 00-0158	DAY	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	198.24	
02 90 55 00-0159	WK	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	545.16	
02 90 55 00-0160	MO	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	1,486.80	
02 90 55 00-0161	DAY	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	46.25	
02 90 55 00-0162	WK	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	127.19	
02 90 55 00-0163	MO	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	346.89	
02 90 55 00-0164	DAY	3,000 CFM Axial Air Mover For Emergency Clean-up	77.09	
02 90 55 00-0165	WK	3,000 CFM Axial Air Mover For Emergency Clean-up	211.99	
02 90 55 00-0166	MO	3,000 CFM Axial Air Mover For Emergency Clean-up	578.16	
02 90 55 00-0167	DAY	Injectidry System For Emergency Clean-up	245.82	
02 90 55 00-0168	WK	Injectidry System For Emergency Clean-up	676.00	
02 90 55 00-0169	MO	Injectidry System For Emergency Clean-up	1,843.63	
02 90 55 00-0170	DAY	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	158.59	
02 90 55 00-0171	WK	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	436.13	
02 90 55 00-0172	MO	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,189.44	
02 90 55 00-0173	DAY	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	235.24	
02 90 55 00-0174	WK	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	646.90	
02 90 55 00-0175	MO	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,764.28	
02 90 55 00-0176	DAY	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	219.01	
02 90 55 00-0177	WK	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	602.27	
02 90 55 00-0178	MO	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,642.56	
02 90 55 00-0179	DAY	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	234.11	
02 90 55 00-0180	WK	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	643.81	
02 90 55 00-0181	MO	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	1,755.84	
02 90 55 00-0182	DAY	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	234.11	
02 90 55 00-0183	WK	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	643.81	
02 90 55 00-0184	MO	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	1,755.84	
02 90 55 00-0185	DAY	D-500 Desiccant Dehumidifier For Emergency Clean-up	264.32	
02 90 55 00-0186	WK	D-500 Desiccant Dehumidifier For Emergency Clean-up	726.88	
02 90 55 00-0187	MO	D-500 Desiccant Dehumidifier For Emergency Clean-up	1,982.40	
02 90 55 00-0188	DAY	D-750 Desiccant Dehumidifier For Emergency Clean-up	555.07	
02 90 55 00-0189	WK	D-750 Desiccant Dehumidifier For Emergency Clean-up	1,526.45	
02 90 55 00-0190	MO	D-750 Desiccant Dehumidifier For Emergency Clean-up	4,163.04	
02 90 55 00-0191	DAY	D-1000 Desiccant Dehumidifier For Emergency Clean-up	951.55	
02 90 55 00-0192	WK	D-1000 Desiccant Dehumidifier For Emergency Clean-up	2,616.77	
02 90 55 00-0193	MO	D-1000 Desiccant Dehumidifier For Emergency Clean-up	7,136.64	
02 90 55 00-0194	DAY	D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,465.09	
02 90 55 00-0195	WK	D-1500 Desiccant Dehumidifier For Emergency Clean-up	4,028.99	
02 90 55 00-0196	MO	D-1500 Desiccant Dehumidifier For Emergency Clean-up	10,988.16	
02 90 55 00-0197	DAY	D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,465.09	
02 90 55 00-0198	WK	D-2000 Desiccant Dehumidifier For Emergency Clean-up	4,028.99	
02 90 55 00-0199	MO	D-2000 Desiccant Dehumidifier For Emergency Clean-up	10,988.16	
02 90 55 00-0200	DAY	D-2250 Desiccant Dehumidifier For Emergency Clean-up	1,530.04	
02 90 55 00-0201	WK	D-2250 Desiccant Dehumidifier For Emergency Clean-up	4,207.60	
02 90 55 00-0202	MO	D-2250 Desiccant Dehumidifier For Emergency Clean-up	11,475.26	
02 90 55 00-0203	DAY	D-3000 Desiccant Dehumidifier For Emergency Clean-up	1,903.10	
02 90 55 00-0204	WK	D-3000 Desiccant Dehumidifier For Emergency Clean-up	5,233.54	
02 90 55 00-0205	MO	D-3000 Desiccant Dehumidifier For Emergency Clean-up	14,273.28	
02 90 55 00-0206	DAY	D-4500 Desiccant Dehumidifier For Emergency Clean-up	2,140.99	
02 90 55 00-0207	WK	D-4500 Desiccant Dehumidifier For Emergency Clean-up	5,887.73	
02 90 55 00-0208	MO	D-4500 Desiccant Dehumidifier For Emergency Clean-up	16,057.44	
02 90 55 00-0209	DAY	D-5000 Desiccant Dehumidifier For Emergency Clean-up	2,299.58	
02 90 55 00-0210	WK	D-5000 Desiccant Dehumidifier For Emergency Clean-up	6,323.86	
02 90 55 00-0211	MO	D-5000 Desiccant Dehumidifier For Emergency Clean-up	17,246.88	
02 90 55 00-0212	DAY	D-9000 Desiccant Dehumidifier For Emergency Clean-up	3,020.80	
02 90 55 00-0213	WK	D-9000 Desiccant Dehumidifier For Emergency Clean-up	8,307.20	
02 90 55 00-0214	MO	D-9000 Desiccant Dehumidifier For Emergency Clean-up	22,656.00	
02 90 55 00-0215	DAY	D-10500 Desiccant Dehumidifier For Emergency Clean-up	3,171.84	
02 90 55 00-0216	WK	D-10500 Desiccant Dehumidifier For Emergency Clean-up	8,722.56	
02 90 55 00-0217	MO	D-10500 Desiccant Dehumidifier For Emergency Clean-up	23,788.80	
02 90 55 00-0218	DAY	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	515.42	
02 90 55 00-0219	WK	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,417.42	
02 90 55 00-0220	MO	3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,865.68	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				02 90 55 00-0221 DAY 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	713.66	
				02 90 55 00-0222 WK 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,962.58	
				02 90 55 00-0223 MO 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,352.48	
				02 90 55 00-0224 DAY 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	991.55	
				02 90 55 00-0225 WK 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,616.77	
				02 90 55 00-0226 MO 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,136.64	
				02 90 55 00-0227 DAY 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,268.74	
				02 90 55 00-0228 WK 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,489.02	
				02 90 55 00-0229 MO 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	9,515.52	
				02 90 55 00-0230 DAY 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,140.99	
				02 90 55 00-0231 WK 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,887.73	
				02 90 55 00-0232 MO 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	16,057.44	
				02 90 55 00-0233 DAY 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,378.88	
				02 90 55 00-0234 WK 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,541.92	
				02 90 55 00-0235 MO 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	17,841.60	
				02 90 55 00-0236 DAY 25' Flex Duct For Emergency Clean-up.....	31.72	
				02 90 55 00-0237 WK 25' Flex Duct For Emergency Clean-up.....	87.23	
				02 90 55 00-0238 MO 25' Flex Duct For Emergency Clean-up.....	237.89	
				02 90 55 00-0239 DAY Hygrothermograph For Emergency Clean-up.....	47.05	
				02 90 55 00-0240 WK Hygrothermograph For Emergency Clean-up.....	129.38	
				02 90 55 00-0241 MO Hygrothermograph For Emergency Clean-up.....	352.86	
				02 90 55 00-0242 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	7,455.20	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
				02 90 55 00-0243 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	20,501.79	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
				02 90 55 00-0244 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	55,913.98	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
				02 90 55 00-0245 Power Equipment (02 90 55 00-0022)		
				02 90 55 00-0246 WK Up to 65 KVA Generator For Emergency Clean-up.....	981.76	
				02 90 55 00-0247 WK >65 to 125 KVA Generator For Emergency Clean-up.....	1,661.44	
				02 90 55 00-0248 WK >125 to 250 KVA Generator For Emergency Clean-up.....	1,618.84	
				02 90 55 00-0249 WK >250 to 375 KVA Generator For Emergency Clean-up.....	2,794.24	
				02 90 55 00-0250 WK >375 Up to 440 KVA Generator For Emergency Clean-up.....	3,776.00	
				02 90 55 00-0251 WK >440 to 625 KVA Generator For Emergency Clean-up.....	5,680.15	
				02 90 55 00-0252 WK >625 to 800 KVA Generator For Emergency Clean-up.....	5,815.04	
				02 90 55 00-0253 WK >800 to 1,000 KVA Generator For Emergency Clean-up.....	7,778.56	
				02 90 55 00-0254 WK >1,000 to 1,500 KVA Generator For Emergency Clean-up.....	11,705.60	
				02 90 55 00-0255 EA Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	25.37	
				02 90 55 00-0256 EA Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....	121.59	
				02 90 55 00-0257 EA Electrical Distribution Panel For Emergency Clean-up.....	293.55	
				02 90 55 00-0258 EA Quad Box Strings (25' Sections) For Emergency Clean-up.....	45.69	
				02 90 55 00-0259 EA 50' Power Cord For Spider Box For Emergency Clean-up.....	42.29	
				02 90 55 00-0260 EA Pig Tails (Per Each) For Emergency Clean-up.....	4.70	
				02 90 55 00-0261 Freight Charges (02 90 55 00-0022)		
				02 90 55 00-0262 MI Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	2.35	
				02 90 55 00-0263 MI Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	4.23	
				02 90 55 00-0264 MI Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....	4.23	
				02 90 55 00-0265 MI Freight Tractor Trailer For Emergency Clean-up Equipment.....	6.12	
				02 90 55 00-0266 Emergency Clean-up Personal Protection Equipment (02 90 55 00-0001)		
				Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
				02 90 55 00-0267 EA Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....	13.13	
				02 90 55 00-0268 EA Respirator Cartridge For Emergency Clean-up Personal Protection Equipment.....	45.86	
				02 90 55 00-0269 BOX Dust Mask For Emergency Clean-up Personal Protection Equipment.....	51.13	
				02 90 55 00-0270 PR Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	3.52	
				02 90 55 00-0271 BOX 5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment.....	23.79	
				02 90 55 00-0272 PR Leather Gloves For Emergency Clean-up Personal Protection Equipment.....	11.90	
				02 90 55 00-0273 EA Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment.....	20.31	
				02 90 55 00-0274 PR Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	13.92	
				02 90 55 00-0275 EA Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....	101.30	
				02 90 55 00-0276 PR Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	6.10	
				02 90 55 00-0277 EA Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....	7.93	
				02 90 55 00-0278 Emergency Clean-up Expendables (02 90 55 00-0001)		
				Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
				02 90 55 00-0279 General Materials (02 90 55 00-0278)		
				02 90 55 00-0280 GAL Adhesive Remover For Emergency Clean-up.....	95.16	
				02 90 55 00-0281 GAL Bio-HS For Emergency Clean-up.....	32.08	
				02 90 55 00-0282 GAL Biocide For Emergency Clean-up.....	40.94	
				02 90 55 00-0283 EA 10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	5.01	

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

02 90 55 00-0284	EA	10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up	7.61	
02 90 55 00-0285	GAL	Bleach For Emergency Clean-up	10.23	
02 90 55 00-0286	EA	Small Stainless Brush For Emergency Clean-up	6.26	
02 90 55 00-0287	EA	2-1/2 Gallon Buckets For Emergency Clean-up	7.95	
02 90 55 00-0288	EA	5 Gallon Bucket For Emergency Clean-up	12.04	
02 90 55 00-0289	GAL	Carpet Defoamer For Emergency Clean-up	30.98	
02 90 55 00-0290	GAL	Carpet Pre-treat For Emergency Clean-up	23.17	
02 90 55 00-0291	GAL	Carpet Spotter For Emergency Clean-up	38.83	
02 90 55 00-0292	GAL	Carpet/Upholstery Cleaner For Emergency Clean-up	31.31	
02 90 55 00-0293	ROL	Carpet Masking/Shield For Emergency Clean-up	86.86	
02 90 55 00-0294	EA	Chemical Sponge For Emergency Clean-up	3.75	
02 90 55 00-0295	GAL	Clear Seal For Emergency Clean-up	127.94	
02 90 55 00-0296	GAL	Coil Cleaner For Emergency Clean-up	59.81	
02 90 55 00-0297	EA	Comfort Masks, Per Box 50 For Emergency Clean-up Personal Protection Equipment	43.95	
02 90 55 00-0298	EA	Hooded Coverall With Elastic Wrists/Ankles For Emergency Clean-up Personal Protection Equipment	19.44	
02 90 55 00-0299	EA	Decontamination Chamber For Emergency Clean-up	260.09	
02 90 55 00-0300	GAL	All Purpose Degreaser For Emergency Clean-up	41.87	
02 90 55 00-0301	GAL	De-Foamer Liquid For Emergency Clean-up	55.03	
02 90 55 00-0302	EA	Deodorization Membrane For Emergency Clean-up	107.89	
02 90 55 00-0303	GAL	9-D-9 Smoke Deodorizer For Emergency Clean-up	164.49	
02 90 55 00-0304	LB	Deodorizing Gel For Emergency Clean-up	38.64	
02 90 55 00-0305	GAL	Deodorizing Liquid For Emergency Clean-up	57.21	
02 90 55 00-0306	PAIL	Deodorizing Block For Emergency Clean-up	9.71	
02 90 55 00-0307	GAL	Disinfectant/Antimicrobial For Emergency Clean-up	100.27	
02 90 55 00-0308	GAL	BruClean Disinfectant For Emergency Clean-up	30.45	
02 90 55 00-0309	GAL	Dryclean For Emergency Clean-up	44.95	
02 90 55 00-0310	GAL	Duct Sealant Spray For Emergency Clean-up	67.75	
02 90 55 00-0311	GAL	Antifungal Duct Sealant For Emergency Clean-up	97.86	
02 90 55 00-0312	GAL	Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up	148.33	
02 90 55 00-0313	PR	Ear Plugs For Emergency Clean-up Personal Protection Equipment	0.61	
02 90 55 00-0314	GAL	Encapsulant For Emergency Clean-up	102.70	
02 90 55 00-0315	GAL	Aftershock Fiberlocke For Emergency Clean-up	90.18	
02 90 55 00-0316	GAL	IAQ 2500 Fiberlocke For Emergency Clean-up	116.20	
02 90 55 00-0317	GAL	IAS 6000 Fiberlocke For Emergency Clean-up	119.51	
02 90 55 00-0318	ROL	Filter Material For Emergency Clean-up	233.27	
02 90 55 00-0319	EA	Blue Paper Collection Bag Filter For Emergency Clean-up	6.28	
02 90 55 00-0320	EA	CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	498.92	
02 90 55 00-0321	EA	Pre-Filter For Negative Air Machine For Emergency Clean-up	2.39	
02 90 55 00-0322	EA	Pleated Filter For Negative Air Machine For Emergency Clean-up	10.66	
02 90 55 00-0323	EA	Charcoal Filter For Negative Air Machine For Emergency Clean-up	37.94	
02 90 55 00-0324	EA	High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up	360.85	
02 90 55 00-0325	EA	Pleated Dehumidifier Filter For Emergency Clean-up	9.52	
02 90 55 00-0326	GAL	Floor Stripper For Emergency Clean-up	21.08	
02 90 55 00-0327	GAL	Floor Wax For Emergency Clean-up	30.11	
02 90 55 00-0328	GAL	Fogger (Thermal) For Emergency Clean-up	174.46	
02 90 55 00-0329	BOX	Furniture Blocks For Emergency Clean-up	140.52	
02 90 55 00-0330	EA	Furniture Polish, Per 10 Oz Can For Emergency Clean-up	18.93	
02 90 55 00-0331	PR	Glass Cleaner For Emergency Clean-up	12.63	
02 90 55 00-0332	GAL	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	22.96	
02 90 55 00-0333	EA	Goof Off Spray, 12 Oz For Emergency Clean-up	15.10	
02 90 55 00-0334	EA	Halogen Light Bulbs For Emergency Clean-up	21.50	
02 90 55 00-0335	QT	Hand Sanitizer For Emergency Clean-up	10.63	
02 90 55 00-0336	EA	Hard Hats For Emergency Clean-up Personal Protection Equipment	8.75	
02 90 55 00-0337	BOX	Hog Rings, Box Of 2,500 For Emergency Clean-up	18.40	
02 90 55 00-0338	GAL	HVAC Coal Cleaner For Emergency Clean-up	59.81	
02 90 55 00-0339	BOX	Inventory Tag, Box Of 1,000 For Emergency Clean-up	129.45	
02 90 55 00-0340	EA	Utility Knives For Emergency Clean-up	16.56	
02 90 55 00-0341	ROL	13" Lay Flat Tubing (250' Roll) For Emergency Clean-up	111.04	
02 90 55 00-0342	ROL	20" Lay Flat Tubing (250' Roll) For Emergency Clean-up	117.23	
02 90 55 00-0343	ROL	29" Lay Flat Tubing (250' Roll) For Emergency Clean-up	233.41	
02 90 55 00-0344	ROL	39" Lay Flat Tubing (250' Roll) For Emergency Clean-up	337.38	
02 90 55 00-0345	GAL	Lemon Oil For Emergency Clean-up	50.75	
02 90 55 00-0346	GAL	LPS 1/Mecca Lube For Emergency Clean-up	54.71	
02 90 55 00-0347	GAL	LPS 2 For Emergency Clean-up	57.90	
02 90 55 00-0348	GAL	LPS Contact Cleaner For Emergency Clean-up	57.63	
02 90 55 00-0349	GAL	Light Lubricant Preserve For Emergency Clean-up	135.13	
02 90 55 00-0350	GAL	Heavy Lubricant Preserve For Emergency Clean-up	30.11	
02 90 55 00-0351	GAL	Machinery Cleaning Solvent For Emergency Clean-up	242.97	
02 90 55 00-0352	GAL	Metal Polishing Paste For Emergency Clean-up	25.01	
02 90 55 00-0353	GAL	MediClean® Disinfectant For Emergency Clean-up	60.85	
02 90 55 00-0354	GAL	Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up	74.69	
02 90 55 00-0355	EA	Mop Heads For Emergency Clean-up	9.01	
02 90 55 00-0356	EA	Nylon Scouring Pads For Emergency Clean-up	1.66	
02 90 55 00-0357	GAL	Odor Neutralizer For Emergency Clean-up	38.83	
02 90 55 00-0358	EA	Packing Paper, 25 LB Bundle For Emergency Clean-up	67.32	
02 90 55 00-0359	EA	Paint Brushes For Emergency Clean-up	7.53	
02 90 55 00-0360	ROL	Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up	156.98	
02 90 55 00-0361	EA	Putty Knives For Emergency Clean-up	6.82	
02 90 55 00-0362	ROL	Red Resin Paper, 200' Roll For Emergency Clean-up	34.26	
02 90 55 00-0363	GAL	Reodorant For Emergency Clean-up	127.97	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0364	EA			N95 Respirator For Emergency Clean-up Personal Protection Equipment	4.38	
02 90 55 00-0365	EA			N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment	6.80	
02 90 55 00-0366	PR			3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	45.65	
02 90 55 00-0367	PR			P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	45.65	
02 90 55 00-0368	EA			Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment	36.52	
02 90 55 00-0369	GAL			Restoracide For Emergency Clean-up.....	60.03	
02 90 55 00-0370	GAL			Rust Remover For Emergency Clean-up.....	88.81	
02 90 55 00-0371	EA			Saltesmo Test Samples For Emergency Clean-up.....	8.25	
02 90 55 00-0372	EA			Sand Bag For Emergency Clean-up.....	2.16	
				Note: Excludes sand material		
02 90 55 00-0373	EA			Scotch-Brite 7447, Per Box 50 For Emergency Clean-up.....	26.96	
02 90 55 00-0374	EA			Small Scrub Brushes For Emergency Clean-up	14.40	
02 90 55 00-0375	GAL			Clear Soot Sealant For Emergency Clean-up.....	103.00	
02 90 55 00-0376	GAL			Pigmented Soot Sealant For Emergency Clean-up	277.77	
02 90 55 00-0377	ROL			Shrinkwrap Plastic For Emergency Clean-up	63.94	
02 90 55 00-0378	EA			Dry Sponges For Emergency Clean-up	5.01	
02 90 55 00-0379	EA			Spray Adhesive, Per Can For Emergency Clean-up.....	6.67	
02 90 55 00-0380	EA			Spray Bot./Trigger For Emergency Clean-up.....	5.81	
02 90 55 00-0381	GAL			Stain Remover For Emergency Clean-up	35.07	
02 90 55 00-0382	GAL			Stainless Steel Cleaner For Emergency Clean-up.....	12.57	
02 90 55 00-0383	EA			Stainless Steel Polish, Per Can For Emergency Clean-up	16.49	
02 90 55 00-0384	LB			Sweeping Compound For Emergency Clean-up.....	0.55	
02 90 55 00-0385	ROL			Duct Tape, 2" x 50 YD For Emergency Clean-up	13.05	
02 90 55 00-0386	ROL			Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up.....	12.28	
02 90 55 00-0387	ROL			HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up.....	33.12	
02 90 55 00-0388	ROL			Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up.....	17.47	
02 90 55 00-0389	ROL			Poly Box Tape, 2" x 110 YD For Emergency Clean-up.....	5.39	
02 90 55 00-0390	LB			Terry Towels For Emergency Clean-up	7.75	
02 90 55 00-0391	GAL			Thermal Fog For Emergency Clean-up	78.91	
02 90 55 00-0392	ROL			Lawn And Leaf Trash Bags For Emergency Clean-up.....	40.60	
02 90 55 00-0393	ROL			6 Mil Heavy Duty Trash Bags (50 Count) For Emergency Clean-up.....	161.91	
02 90 55 00-0394	EA			Trisodium Phosphate, 20 LB Pail For Emergency Clean-up.....	54.94	
02 90 55 00-0395	EA			Backpack Vacuum Bags For Emergency Clean-up	1.85	
02 90 55 00-0396	EA			Upright Vacuum Bags For Emergency Clean-up	2.47	
02 90 55 00-0397	GAL			Vinyl And Leather Cleaner For Emergency Clean-up	31.31	
02 90 55 00-0398	ROL			1 Mil Visqueen, 12' x 400', For Emergency Clean-up.....	52.60	
02 90 55 00-0399	ROL			4 Mil Visqueen, 32' x 100', For Emergency Clean-up	142.82	
02 90 55 00-0400	ROL			6 Mil Visqueen, 32' x 400', For Emergency Clean-up	194.88	
02 90 55 00-0401	LB			Wipes, Cotton Cloth For Emergency Clean-up	5.52	
02 90 55 00-0402	ROL			12" x 750', Wrap, Bubble/Anti-Static For Emergency Clean-up	160.40	
02 90 55 00-0403	EA			Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up.....	15.66	
02 90 55 00-0404	EA			Zip Wall Zippers For Emergency Clean-up.....	24.35	
02 90 55 00-0405				Technical/Electronics Restoration Materials (02 90 55 00-0278)		
02 90 55 00-0406	EA			Brush - Brass For Emergency Clean-up	5.65	
02 90 55 00-0407	EA			1" Brush, Natural Bristle For Emergency Clean-up.....	1.81	
02 90 55 00-0408	EA			1/2" Brush, Natural Bristle For Emergency Clean-up.....	1.51	
02 90 55 00-0409	EA			1/4" Brush, Natural Bristle For Emergency Clean-up.....	1.28	
02 90 55 00-0410	EA			Brush - Parts For Emergency Clean-up	7.83	
02 90 55 00-0411	EA			Brush - Plastic For Emergency Clean-up.....	4.06	
02 90 55 00-0412	EA			Brush - Wire Grout For Emergency Clean-up.....	8.22	
02 90 55 00-0413	EA			Brushing Tool For Emergency Clean-up.....	15.85	
02 90 55 00-0414	EA			Cleaning Swabs, Cotton For Emergency Clean-up	0.38	
02 90 55 00-0415	EA			Cleaning Swabs, Foam Tip For Emergency Clean-up.....	0.45	
02 90 55 00-0416	EA			Contact Restorer, Per Can For Emergency Clean-up.....	34.23	
02 90 55 00-0417	EA			Contact Spray, Per Can For Emergency Clean-up.....	23.29	
02 90 55 00-0418	UNT			Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up	3.61	
02 90 55 00-0419	UNT			Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up	10.35	
02 90 55 00-0420	UNT			Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up	13.41	
02 90 55 00-0421	LB			Cotton Cleaning Cloths For Emergency Clean-up	21.17	
02 90 55 00-0422	EA			12" x 17" Dust Cloths For Emergency Clean-up	0.33	
02 90 55 00-0423	EA			24" x 24" Dust Cloths For Emergency Clean-up.....	0.93	
02 90 55 00-0424	EA			Deoxidizing Agent, Per Can For Emergency Clean-up.....	16.58	
02 90 55 00-0425	GAL			Electronic Grade Detergent For Emergency Clean-up	35.23	
02 90 55 00-0426	SHT			Inventory Labels For Emergency Clean-up.....	0.19	
02 90 55 00-0427	GAL			Isopropyl Alcohol For Emergency Clean-up.....	93.35	
02 90 55 00-0428	GAL			Lubrication/Penetrating Oil, Per Can For Emergency Clean-up.....	136.12	
02 90 55 00-0429	GAL			PC Board Detergent For Emergency Clean-up.....	96.68	
02 90 55 00-0430	GAL			Rust Inhibitor, Regular Duty For Emergency Clean-up.....	157.01	
02 90 55 00-0431	GAL			Rust Inhibitor, Moderate Duty For Emergency Clean-up	158.18	
02 90 55 00-0432	GAL			Rust Inhibitor, Severe Duty For Emergency Clean-up.....	169.08	
02 90 55 00-0433	LB			Wipes, Lint Free Cloths For Emergency Clean-up.....	5.93	
02 90 55 00-0434	EA			Wire Marker Card For Emergency Clean-up.....	2.63	
02 90 55 00-0435	EA			Steel Wool, 16 Pad Sleeve For Emergency Clean-up	1.33	

02

02 Existing Conditions

02 90 Disaster Recovery

02 90 55 Emergency Clean-up



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

END OF SECTION 02



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

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

03 01 Maintenance of Concrete (03)

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

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

03 01 30 51-0001	Abrasive Blasting <small>(03 01 30 51)</small>	
	Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.09
	For Up To 100, Add	2.76
	For >100 To 250, Add	0.69
	For >250 To 500, Add	0.35
	For >5,000 To 10,000, Deduct	-0.07
	For >10,000, Deduct	-0.14
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	4.47
	For Up To 100, Add	5.52
	For >100 To 250, Add	1.38
	For >250 To 500, Add	0.69
	For >5,000 To 10,000, Deduct	-0.14
	For >10,000, Deduct	-0.28

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

03 01 30 71-0001	Concrete Resurfacing/Repair <small>(03 01 30 71)</small>	
03 01 30 71-0002	Concrete Repair <small>(03 01 30 71-0001)</small>	
03 01 30 71-0003	Decks Or Floors <small>(03 01 30 71-0002)</small>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	6.80
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	24.64
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.66
03 01 30 71-0007	Verticals Or Overheads <small>(03 01 30 71-0002)</small>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar.....	9.97
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	31.67
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	36.21
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	7.66
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	13.50
	Note: Rapid Set - WunderFixx	
03 01 30 71-0013	Bridge Deck Treatment <small>(03 01 30 71-0002)</small>	
03 01 30 71-0014	SF Sweep Bridge Deck	0.02
03 01 30 71-0015	SF Clean Bridge Deck.....	0.02
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant	1.87
03 01 30 71-0017	Concrete Finishes <small>(03 01 30 71-0001)</small>	
03 01 30 71-0018	Concrete Patching <small>(03 01 30 71-0017)</small>	
03 01 30 71-0019	Walls <small>(03 01 30 71-0018)</small>	
03 01 30 71-0020	BAG Sika Top 111 Plus.....	144.14
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	51.23
	For >10 To 25, Add	30.74
	For >25 To 50, Add	20.49
	For >50 To 75, Add	10.25
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag	99.66
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	32.46
	For >10 To 25, Add	19.47
	For >25 To 50, Add	12.98
	For >50 To 75, Add	6.49
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube	35.18
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0023	BAG Pea Gravel.....	26.08

03 01 30 71-0024 Crack Repair For Concrete (03 01 30 71-0001)

03 01 30 71-0025 Non Structural Crack Repair For Concrete (03 01 30 71-0024)

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 01 30 71-0026	Surface Applied, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0025)</small>	
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.	
03 01 30 71-0027	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.68
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0028	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	7.43
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0029	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.79
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.65
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0031	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.20
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	8.46
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0033	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	6.50
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	9.06
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0035	Pressure Injected, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0025)</small>	
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0036	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	25.37
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0037	Structural Crack Repair For Concrete <small>(03 01 30 71-0024)</small>	
03 01 30 71-0038	Surface Applied, Structural Crack Repair For Concrete <small>(03 01 30 71-0037)</small>	
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.	
03 01 30 71-0039	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	6.57
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0040	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	9.21
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0041	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	6.44
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.93
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0043	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	7.74
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	11.54
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0045	Pressure Injected, Structural Crack Repair For Concrete <small>(03 01 30 71-0037)</small>	
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0046	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	22.20
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0047	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	22.06
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0048	Pool Deck Texture Repair <small>(03 01 30 71-0001)</small>	
03 01 30 71-0049	SF Pool Deck Texture Repair.....	16.01
	Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0050 Carbon Fiber Strengthening System <small>(03 01 30 71-0001)</small> Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0051 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	78.96	
03 01 30 71-0052 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	69.53	
03 01 30 71-0053 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer..... Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	64.22	
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Walls, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	61.28	
03 01 30 71-0055 Corrosive Inhibitor <small>(03 01 30 71)</small>		
03 01 30 71-0056 SF Corrosive Inhibitor.....	4.83	
03 01 30 72 Strengthening Of Cast-in-Place Concrete <small>(03 01 30)</small>		
03 01 30 72-0001 Concrete Surface Repairs <small>(03 01 30 72)</small>		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.34	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures (03 05 13)

03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	5.40
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	3.74
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	5.82
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	11.64
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	10.39
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	20.78
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	4.49
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	6.23
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	12.47
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	7.64
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	9.97
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	13.30
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture.....	26.57
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture	66.49
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture	24.93
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add.....	5.82
03 05 13 00-0018 CY Chilled Water, Concrete Add	5.82
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	33.66
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	56.10
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture	107.71
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	149.60

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

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

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)

Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.

03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)

Note: For foundation work below or at grade.

03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	8.30
For <1,000, Add	1.55
For Foundations >8' Below Grade, Add	1.49
For Curved Formwork, Add	2.98
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	9.87
For <1,000, Add	1.85
For Foundations >8' Below Grade, Add	1.79
For Curved Formwork, Add	3.59
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	11.53
For <1,000, Add	2.18
For Foundations >8' Below Grade, Add	2.12
For Curved Formwork, Add	4.24
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	9.69
For <1,000, Add	1.81
For Foundations >8' Below Grade, Add	1.75
For Curved Formwork, Add	3.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0007	SF		Below Grade Walls Foundation Wood Formwork Note: Excludes footing	13.70	
			For <1,000, Add	2.56	
			For Foundations >8' Below Grade, Add	2.47	
			For Curved Formwork, Add	4.95	
03 11 13 00-0008			Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF		Up To 6" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	6.38	
			For Curved Formwork, Add	1.18	
			For Up To 250, Add	2.37	
				1.22	
03 11 13 00-0010	LF		>6" To 12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	9.17	
			For Curved Formwork, Add	1.65	
			For Up To 250, Add	3.31	
				1.71	
03 11 13 00-0011	SF		>12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add	11.91	
			For Curved Formwork, Add	2.15	
			For <1,000, Add	4.29	
				2.23	
03 11 13 00-0012			Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF		Up To 8" Square Column Wood Formwork.....	49.52	
03 11 13 00-0014	LF		>8" To 12" Square Column Wood Formwork.....	72.82	
03 11 13 00-0015	LF		>12" To 18" Square Column Wood Formwork.....	91.51	
03 11 13 00-0016	LF		>18" To 24" Square Column Wood Formwork.....	130.90	
03 11 13 00-0017	LF		>24" To 36" Square Column Wood Formwork.....	187.80	
03 11 13 00-0018	LF		>36" To 48" Square Column Wood Formwork.....	247.89	
03 11 13 00-0019			Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF		Up To 8' High Above Grade Wall Wood Formwork..... For Curved Formwork, Add	15.28	
			For <1,000, Add	5.58	
				2.88	
03 11 13 00-0021	SF		>8' High Above Grade Wall Wood Formwork For Curved Formwork, Add	18.06	
			For <1,000, Add	6.61	
				3.41	
03 11 13 00-0022			Elevated Beam Wood Formwork (03 11 13 00-0001) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF		Bottom of Elevated Beam Wood Formwork For Curved Formwork, Add	19.82	
			For <1,000, Add	7.25	
				3.74	
03 11 13 00-0024	SF		Vertical Sides of Elevated Beam Wood Formwork..... For Curved Formwork, Add	12.69	
			For <1,000, Add	4.64	
				2.39	
03 11 13 00-0025			Elevated Slab Wood Formwork (03 11 13 00-0001) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF		Elevated Slab Wood Formwork..... For <1,000, Add	11.79	
				2.15	
03 11 13 00-0027			Metal Framed Formwork (03 11 13) Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028			Foundation Metal Framed Formwork (03 11 13 00-0027) Note: For foundation work below or at grade.		
03 11 13 00-0029	SF		Continuous Footings Foundation Metal Framed Formwork For <1,000, Add	7.59	
			For Foundations >8' Below Grade, Add	1.40	
			For Curved Formwork, Add	1.34	
				2.68	
03 11 13 00-0030	SF		Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork For <1,000, Add	8.42	
			For Foundations >8' Below Grade, Add	1.56	
			For Curved Formwork, Add	1.50	
				3.01	
03 11 13 00-0031	SF		Mat Foundation Metal Framed Formwork For <1,000, Add	9.43	
			For Foundations >8' Below Grade, Add	1.73	
			For Curved Formwork, Add	1.66	
				3.32	
03 11 13 00-0032	SF		Grade Beams Or Duct Bank Foundation Metal Framed Formwork..... For <1,000, Add	7.96	
			For Foundations >8' Below Grade, Add	1.46	
			For Curved Formwork, Add	1.40	
				2.79	
03 11 13 00-0033	SF		Below Grade Walls Foundation Metal Framed Formwork..... Note: Excludes footing.	12.13	
			For <1,000, Add	2.26	
			For Foundations >8' Below Grade, Add	2.18	
			For Curved Formwork, Add	4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	5.41	
For Foundations >8' Below Grade, Add	1.06	
For Curved Formwork, Add	2.11	
For <250, Add	1.07	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	6.78	
For Foundations >8' Below Grade, Add	1.31	
For Curved Formwork, Add	2.63	
For <250, Add	1.33	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork.....	7.50	
For Foundations >8' Below Grade, Add	1.45	
For Curved Formwork, Add	2.90	
For <1,000, Add	1.47	
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039 Square Columns (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork	46.17	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork	55.77	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork	65.41	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork	78.15	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork	94.15	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork	113.04	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork	145.02	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork	178.85	
03 11 13 00-0048 Round Columns (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork	45.10	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork.....	50.18	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork.....	57.62	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork.....	67.22	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork.....	79.38	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork.....	90.93	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork.....	117.76	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork.....	153.41	
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork	7.44	
For Curved Formwork, Add	2.49	
For <1,000, Add	1.33	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork.....	9.07	
For Curved Formwork, Add	3.00	
For <1,000, Add	1.60	
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork	7.33	
For Curved Formwork, Add	2.31	
For <1,000, Add	1.26	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork.....	5.54	
For Curved Formwork, Add	1.82	
For <1,000, Add	0.98	
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork.....	9.72	
For <1,000, Add	1.50	
03 11 13 00-0065 Fiber Tube Formwork (03 11 13)		
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork	19.05	
For Plastic Lined, Add	0.68	
For Columns >12' In Length, Add	1.91	
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork	20.08	
For Plastic Lined, Add	0.80	
For Columns >12' In Length, Add	2.01	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork	22.17	
For Plastic Lined, Add	0.92	
For Columns >12' In Length, Add	2.22	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork	26.11	
For Plastic Lined, Add	1.32	
For Columns >12' In Length, Add	2.61	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork	29.47	
For Plastic Lined, Add	1.79	
For Columns >12' In Length, Add	2.95	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0072	LF		16" Diameter Round Fiber Tube Formwork	31.88	
			<i>For Plastic Lined, Add</i>	2.26	
			<i>For Columns >12' In Length, Add</i>	3.19	
03 11 13 00-0073	LF		18" Diameter Round Fiber Tube Formwork	33.48	
			<i>For Plastic Lined, Add</i>	2.46	
			<i>For Columns >12' In Length, Add</i>	3.35	
03 11 13 00-0074	LF		20" Diameter Round Fiber Tube Formwork	36.45	
			<i>For Plastic Lined, Add</i>	3.07	
			<i>For Columns >12' In Length, Add</i>	3.65	
03 11 13 00-0075	LF		22" Diameter Round Fiber Tube Formwork	39.87	
			<i>For Plastic Lined, Add</i>	3.70	
			<i>For Columns >12' In Length, Add</i>	3.99	
03 11 13 00-0076	LF		24" Diameter Round Fiber Tube Formwork	43.30	
			<i>For Plastic Lined, Add</i>	4.34	
			<i>For Columns >12' In Length, Add</i>	4.33	
03 11 13 00-0077	LF		26" Diameter Round Fiber Tube Formwork	45.14	
			<i>For Plastic Lined, Add</i>	4.73	
			<i>For Columns >12' In Length, Add</i>	4.51	
03 11 13 00-0078	LF		28" Diameter Round Fiber Tube Formwork	47.96	
			<i>For Plastic Lined, Add</i>	5.42	
			<i>For Columns >12' In Length, Add</i>	4.80	
03 11 13 00-0079	LF		30" Diameter Round Fiber Tube Formwork	51.00	
			<i>For Plastic Lined, Add</i>	6.17	
			<i>For Columns >12' In Length, Add</i>	5.10	
03 11 13 00-0080	LF		36" Diameter Round Fiber Tube Formwork	61.77	
			<i>For Plastic Lined, Add</i>	8.84	
			<i>For Columns >12' In Length, Add</i>	6.18	
03 11 13 00-0081	LF		42" Diameter Round Fiber Tube Formwork	83.72	
			<i>For Plastic Lined, Add</i>	15.01	
			<i>For Columns >12' In Length, Add</i>	8.37	
03 11 13 00-0082	LF		48" Diameter Round Fiber Tube Formwork	99.52	
			<i>For Plastic Lined, Add</i>	19.34	
			<i>For Columns >12' In Length, Add</i>	9.95	
03 11 13 00-0083	LF		54" Diameter Round Fiber Tube Formwork	164.44	
			<i>For Plastic Lined, Add</i>	38.16	
			<i>For Columns >12' In Length, Add</i>	16.44	
03 11 13 00-0084	LF		60" Diameter Round Fiber Tube Formwork	182.66	
			<i>For Plastic Lined, Add</i>	43.12	
			<i>For Columns >12' In Length, Add</i>	18.27	
03 11 13 00-0085			Accessories For Formwork (03 11 13)		
03 11 13 00-0086			Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087	LF		2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	2.35	
03 11 13 00-0088			Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089	LF		1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.49	
03 11 13 00-0090	LF		3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.87	
03 11 13 00-0091	LF		1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.32	
03 11 13 00-0092			Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093	LF		24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	11.49	
03 11 13 00-0094			Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095	EA		2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	15.05	
03 11 13 00-0096	EA		4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	18.67	
03 11 13 00-0097	EA		6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	22.62	
03 11 13 00-0098	EA		8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	26.54	
03 11 13 00-0099	EA		12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	34.45	
03 11 13 00-0100	EA		18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	82.38	
03 11 16			Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13			Concrete Form Liners (03 11 16)		
03 11 16 13-0001			Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002	SF		Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	6.14	
03 11 16 13-0003	SF		Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	7.73	
03 11 16 13-0004	SF		Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	10.11	
03 11 23			Permanent Stair Forming (03 11)		
03 11 23 00-0001			Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002	SF		Cast On Grade Stairway Wood Formwork.....	19.06	
			<i>For Curved Formwork, Add</i>	7.32	
			<i>For <1,000, Add</i>	3.71	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 23 00-0003	SF			Elevated Stairway Wood Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	38.20 14.38 7.34	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)						
03 11 23 00-0005	SF			Cast On Grade Stairway Metal Framed Formwork <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	15.87 6.02 3.06	
03 11 23 00-0006	SF			Elevated Stairway Metal Framed Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	29.35 11.16 5.68	
03 15 Concrete Accessories (03 10)						
03 15 13 Waterstops (03 15)						
03 15 13 13 Non-Expanding Waterstops (03 15 13)						
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)						
03 15 13 13-0002	LF			3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.73	
03 15 13 13-0003	LF			3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.06	
03 15 13 13-0004	LF			3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	13.61	
03 15 13 13-0005	LF			3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.09	
03 15 13 13-0006	LF			1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	23.95	
03 15 13 13-0007	LF			3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.40	
03 15 13 13-0008	LF			3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.04	
03 15 13 13-0009	LF			3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	26.39	
03 15 13 13-0010	LF			3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.31	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)						
03 15 13 13-0012	LF			3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	9.91	
03 15 13 13-0013	LF			3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	11.26	
03 15 13 13-0014	LF			1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.07	
03 15 13 13-0015	LF			1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.44	
03 15 13 13-0016	LF			3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	11.50	
03 15 13 13-0017	LF			3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	14.41	
03 15 13 16 Expanding Waterstops (03 15 13)						
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)						
03 15 13 16-0002	LF			3/4" x 3/8" Bentonite Waterstop	8.87	
03 15 13 16-0003	LF			1-1/4" x 1/2" Bentonite Waterstop	13.98	
03 15 13 16-0004	LF			1" x 3/4" Bentonite Waterstop	15.79	
03 15 13 16-0005	LF			1" x 1" Bentonite Waterstop	18.10	
03 15 16 Concrete Construction Joints (03 15)						
03 15 16 00-0001 Poured Expansion Joint (03 15 16)						
03 15 16 00-0002	LF			1/2" x 1" Plain Asphalt Expansion Joint, Poured	2.75	0.79
				<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0003	LF			1" x 2" Plain Asphalt Expansion Joint, Poured	5.96	0.79
				<i>For Installation In Walls, Add</i>	1.48	
03 15 16 00-0004	LF			1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.63	0.79
				<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0005	LF			1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.47	0.79
				<i>For Installation In Walls, Add</i>	1.48	
03 15 16 00-0006	LF			1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.59	0.79
				<i>For Installation In Walls, Add</i>	1.48	
03 15 16 00-0007	LF			1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	6.42	0.79
				<i>For Installation In Walls, Add</i>	2.40	
03 15 16 00-0008	LF			1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.03	0.79
				<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0009	LF			1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	3.69	0.79
				<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0010	LF			1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	9.37	0.79
				<i>For Installation In Walls, Add</i>	1.48	
03 15 16 00-0011	LF			1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.51	1.17
03 15 16 00-0012	LF			1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.84	1.23
03 15 16 00-0015	LF			1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.05	1.29
03 15 16 00-0016	LF			1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.27	1.35
03 15 16 00-0017	LF			3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.70	1.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0018 LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.99	1.23
03 15 16 00-0019 LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.33	1.29
03 15 16 00-0020 LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.81	1.35
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.46	1.12
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.67	1.17
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.91	1.23
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.12	1.29
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.38	1.35
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.71	1.41
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.98	1.46
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.43	1.52
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.93	1.23
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.32	1.29
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.00	1.41
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	6.77	1.93
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint.....	4.02	1.23
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint.....	4.52	1.35
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint.....	4.88	1.41
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint.....	6.69	1.46
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint.....	7.11	1.52
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint.....	7.92	1.93
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint.....	9.09	1.93
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint.....	9.62	1.93
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.70	1.23
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.83	1.29
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.98	1.35
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.40	1.41
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.77	1.23
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.90	1.29
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.03	1.35
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.29	1.41
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint.....	2.73	1.23
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint.....	2.97	1.29
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint.....	3.29	1.41
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.38	1.17
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.24	1.17
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.28	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.22	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063 LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	6.86	
03 15 16 00-0064 LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	7.01	
03 15 16 00-0065 LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	7.28	
03 15 16 00-0066 LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	7.75	
03 15 16 00-0067 LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	9.94	
03 15 19 Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001 Cast In Place Anchors (03 15 19)		
Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004 EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	8.75	
For Galvanized, Add	1.05	
For Stainless Steel, Add	7.35	
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.72	
For >100, Deduct	-1.44	



Concrete	03	CS
Concrete Forming and Accessories	03 10	
Concrete Accessories	03 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	9.85	
For Galvanized, Add	1.34	
For Stainless Steel, Add	9.38	
For >10 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-0.78	
For >100, Deduct	-1.57	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	11.45	
For Galvanized, Add	1.85	
For Stainless Steel, Add	12.92	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.87	
For >100, Deduct	-1.74	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	12.57	
For Galvanized, Add	2.41	
For Stainless Steel, Add	16.84	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.90	
For >100, Deduct	-1.79	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	14.91	
For Galvanized, Add	3.22	
For Stainless Steel, Add	22.51	
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-1.01	
For >100, Deduct	-2.02	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.67	
For Galvanized, Add	3.68	
For Stainless Steel, Add	25.73	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.12	
For >100, Deduct	-2.23	
03 15 19 00-0010 3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.61	
For Galvanized, Add	3.65	
For Stainless Steel, Add	25.52	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.11	
For >100, Deduct	-2.23	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.85	
For Galvanized, Add	4.25	
For Stainless Steel, Add	29.75	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.50	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.54	
For Galvanized, Add	5.45	
For Stainless Steel, Add	38.12	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.44	
For >100, Deduct	-2.87	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.77	
For Galvanized, Add	6.86	
For Stainless Steel, Add	48.02	
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.30	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.62	
For Galvanized, Add	4.99	
For Stainless Steel, Add	34.90	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.83	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	25.25	
For Galvanized, Add	5.97	
For Stainless Steel, Add	41.79	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.63	
For >100, Deduct	-3.26	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.44	
For Galvanized, Add	7.96	
For Stainless Steel, Add	55.69	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.95	
For >100, Deduct	-3.90	
03 15 19 00-0018 1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.21	
For Galvanized, Add	6.45	
For Stainless Steel, Add	45.15	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.31	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.05	
			<i>For Galvanized, Add</i>	7.76	
			<i>For Stainless Steel, Add</i>	54.32	
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-1.94	
			<i>For >100, Deduct</i>	-3.88	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	38.08	
			<i>For Galvanized, Add</i>	9.73	
			<i>For Stainless Steel, Add</i>	68.08	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.35	
			<i>For >100, Deduct</i>	-4.70	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	47.06	
			<i>For Galvanized, Add</i>	11.89	
			<i>For Stainless Steel, Add</i>	83.20	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.85	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.74	
			<i>For Galvanized, Add</i>	8.06	
			<i>For Stainless Steel, Add</i>	56.42	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.87	
			<i>For >100, Deduct</i>	-3.73	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.44	
			<i>For Galvanized, Add</i>	9.70	
			<i>For Stainless Steel, Add</i>	67.90	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.38	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	44.78	
			<i>For Galvanized, Add</i>	12.16	
			<i>For Stainless Steel, Add</i>	85.12	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.65	
			<i>For >100, Deduct</i>	-5.31	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	55.28	
			<i>For Galvanized, Add</i>	14.86	
			<i>For Stainless Steel, Add</i>	103.99	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.30	
			<i>For >100, Deduct</i>	-6.60	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>	36.34	
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.34	
			<i>For Galvanized, Add</i>	10.08	
			<i>For Stainless Steel, Add</i>	70.53	
			<i>For >10 To 50, Deduct</i>	-0.81	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.25	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.13	
			<i>For Galvanized, Add</i>	12.13	
			<i>For Stainless Steel, Add</i>	84.91	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.99	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.07	
			<i>For Galvanized, Add</i>	15.21	
			<i>For Stainless Steel, Add</i>	106.44	
			<i>For >10 To 50, Deduct</i>	-1.13	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.05	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	65.46	
			<i>For Galvanized, Add</i>	18.57	
			<i>For Stainless Steel, Add</i>	129.99	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.76	
			<i>For >100, Deduct</i>	-7.52	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.34	
			<i>For Galvanized, Add</i>	12.60	
			<i>For Stainless Steel, Add</i>	88.17	
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.44	
			<i>For >100, Deduct</i>	-4.89	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	51.50	
			<i>For Galvanized, Add</i>	15.16	
			<i>For Stainless Steel, Add</i>	106.12	
			<i>For >10 To 50, Deduct</i>	-1.06	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100, Deduct</i>	-5.75	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	63.44	
For Galvanized, Add	19.01	
For Stainless Steel, Add	133.07	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.99	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	78.18	
For Galvanized, Add	23.21	
For Stainless Steel, Add	162.47	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-4.34	
For >100, Deduct	-8.67	
03 15 19 00-0036 L-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037 3/4" And 7/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	15.93	
For Galvanized, Add	2.79	
For Stainless Steel, Add	19.53	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	18.54	
For Galvanized, Add	3.45	
For Stainless Steel, Add	24.12	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.67	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	21.21	
For Galvanized, Add	3.95	
For Stainless Steel, Add	27.65	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	23.73	
For Galvanized, Add	4.10	
For Stainless Steel, Add	28.70	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.52	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	27.24	
For Galvanized, Add	4.31	
For Stainless Steel, Add	30.14	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.08	
For >100, Deduct	-4.16	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	18.56	
For Galvanized, Add	3.46	
For Stainless Steel, Add	24.19	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.68	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	21.36	
For Galvanized, Add	4.03	
For Stainless Steel, Add	28.18	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	24.77	
For Galvanized, Add	4.62	
For Stainless Steel, Add	32.34	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.57	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	28.22	
For Galvanized, Add	4.80	
For Stainless Steel, Add	33.57	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.10	
For >100, Deduct	-4.21	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	33.36	
For Galvanized, Add	5.04	
For Stainless Steel, Add	35.25	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.58	
For >100, Deduct	-5.16	
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0049 EA 1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.18	
For Galvanized, Add	4.44	
For Stainless Steel, Add	31.05	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.55	
For >100, Deduct	-3.11	
03 15 19 00-0050 EA 1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.50	
For Galvanized, Add	4.99	
For Stainless Steel, Add	34.90	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.60	
03 15 19 00-0051 EA 1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.78	
For Galvanized, Add	5.58	
For Stainless Steel, Add	39.03	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.14	
For >100, Deduct	-4.28	
03 15 19 00-0052 EA 1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.93	
For Galvanized, Add	5.84	
For Stainless Steel, Add	40.88	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.32	
For >100, Deduct	-4.63	
03 15 19 00-0053 EA 1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.52	
For Galvanized, Add	6.12	
For Stainless Steel, Add	42.81	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.63	
For >100, Deduct	-5.27	
03 15 19 00-0054 EA 1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.05	
For Galvanized, Add	7.09	
For Stainless Steel, Add	49.60	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-2.94	
For >100, Deduct	-5.88	
03 15 19 00-0055 EA 1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.64	
For Galvanized, Add	8.29	
For Stainless Steel, Add	58.03	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-3.52	
For >100, Deduct	-7.04	
03 15 19 00-0056 EA 1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.19	
For Galvanized, Add	5.83	
For Stainless Steel, Add	40.81	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.69	
03 15 19 00-0057 EA 1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.68	
For Galvanized, Add	6.53	
For Stainless Steel, Add	45.68	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.19	
For >100, Deduct	-4.38	
03 15 19 00-0058 EA 1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.91	
For Galvanized, Add	6.83	
For Stainless Steel, Add	47.81	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.73	
03 15 19 00-0059 1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060 EA 1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.73	
For Galvanized, Add	7.05	
For Stainless Steel, Add	49.35	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.22	
For >100, Deduct	-4.43	
03 15 19 00-0061 EA 1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.79	
For Galvanized, Add	8.25	
For Stainless Steel, Add	57.75	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.48	
03 15 19 00-0062 EA 1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.21	
For Galvanized, Add	9.35	
For Stainless Steel, Add	65.42	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.92	
For >100, Deduct	-5.84	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	46.99	
For Galvanized, Add	10.56	
For Stainless Steel, Add	73.89	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.23	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	52.08	
For Galvanized, Add	11.48	
For Stainless Steel, Add	80.36	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.97	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.86	
For Galvanized, Add	12.29	
For Stainless Steel, Add	86.03	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-3.94	
For >100, Deduct	-7.89	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.13	
For Galvanized, Add	13.16	
For Stainless Steel, Add	92.09	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.54	
For >100, Deduct	-9.08	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	75.69	
For Galvanized, Add	14.55	
For Stainless Steel, Add	101.85	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-5.39	
For >100, Deduct	-10.77	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	36.26	
For Galvanized, Add	8.82	
For Stainless Steel, Add	61.71	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.30	
For >100, Deduct	-4.61	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.92	
For Galvanized, Add	10.32	
For Stainless Steel, Add	72.21	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.84	
For >100, Deduct	-5.69	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	47.88	
For Galvanized, Add	11.68	
For Stainless Steel, Add	81.76	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-3.04	
For >100, Deduct	-6.07	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	52.26	
For Galvanized, Add	13.19	
For Stainless Steel, Add	92.33	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-3.25	
For >100, Deduct	-6.50	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.82	
For Galvanized, Add	14.35	
For Stainless Steel, Add	100.45	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.63	
For >100, Deduct	-7.26	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	64.02	
For Galvanized, Add	15.37	
For Stainless Steel, Add	107.59	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-4.10	
For >100, Deduct	-8.19	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	71.98	
For Galvanized, Add	16.58	
For Stainless Steel, Add	116.06	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.71	
For >100, Deduct	-9.42	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	82.97	
For Galvanized, Add	18.19	
For Stainless Steel, Add	127.33	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-5.57	
For >100, Deduct	-11.14	

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077	EA		1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.62	
			<i>For Galvanized, Add</i>	12.22	
			<i>For Stainless Steel, Add</i>	85.54	
			<i>For >10 To 50, Deduct</i>	-1.06	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100, Deduct</i>	-5.46	
03 15 19 00-0078	EA		1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	50.15	
			<i>For Galvanized, Add</i>	12.82	
			<i>For Stainless Steel, Add</i>	89.71	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.19	
03 15 19 00-0079	EA		1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.60	
			<i>For Galvanized, Add</i>	14.10	
			<i>For Stainless Steel, Add</i>	98.70	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100, Deduct</i>	-6.89	
03 15 19 00-0080	EA		1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	59.93	
			<i>For Galvanized, Add</i>	15.41	
			<i>For Stainless Steel, Add</i>	107.84	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-3.68	
			<i>For >100, Deduct</i>	-7.36	
03 15 19 00-0081	EA		1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.48	
			<i>For Galvanized, Add</i>	16.71	
			<i>For Stainless Steel, Add</i>	116.97	
			<i>For >10 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-3.94	
			<i>For >100, Deduct</i>	-7.88	
03 15 19 00-0082	EA		1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	71.78	
			<i>For Galvanized, Add</i>	17.97	
			<i>For Stainless Steel, Add</i>	125.79	
			<i>For >10 To 50, Deduct</i>	-1.79	
			<i>For >50 To 100, Deduct</i>	-4.48	
			<i>For >100, Deduct</i>	-8.97	
03 15 19 00-0083	EA		1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	81.24	
			<i>For Galvanized, Add</i>	19.44	
			<i>For Stainless Steel, Add</i>	136.08	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-5.21	
			<i>For >100, Deduct</i>	-10.42	
03 15 19 00-0084	EA		1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	94.88	
			<i>For Galvanized, Add</i>	21.56	
			<i>For Stainless Steel, Add</i>	150.92	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-6.25	
			<i>For >100, Deduct</i>	-12.51	
03 15 19 00-0085	EA		1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.06	
			<i>For Galvanized, Add</i>	18.39	
			<i>For Stainless Steel, Add</i>	128.70	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-3.25	
			<i>For >100, Deduct</i>	-6.50	
03 15 19 00-0086	EA		1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.45	
			<i>For Galvanized, Add</i>	18.79	
			<i>For Stainless Steel, Add</i>	131.50	
			<i>For >10 To 50, Deduct</i>	-1.29	
			<i>For >50 To 100, Deduct</i>	-3.53	
			<i>For >100, Deduct</i>	-7.05	
03 15 19 00-0087	EA		1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	65.57	
			<i>For Galvanized, Add</i>	19.09	
			<i>For Stainless Steel, Add</i>	133.60	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.69	
			<i>For >100, Deduct</i>	-7.39	
03 15 19 00-0088	EA		1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.21	
			<i>For Galvanized, Add</i>	22.05	
			<i>For Stainless Steel, Add</i>	154.32	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-4.01	
			<i>For >100, Deduct</i>	-8.03	
03 15 19 00-0089	EA		1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	84.18	
			<i>For Galvanized, Add</i>	25.45	
			<i>For Stainless Steel, Add</i>	178.15	
			<i>For >10 To 50, Deduct</i>	-1.66	
			<i>For >50 To 100, Deduct</i>	-4.60	
			<i>For >100, Deduct</i>	-9.20	
03 15 19 00-0090	EA		1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	90.39	
			<i>For Galvanized, Add</i>	25.79	
			<i>For Stainless Steel, Add</i>	180.50	
			<i>For >10 To 50, Deduct</i>	-1.94	
			<i>For >50 To 100, Deduct</i>	-5.17	
			<i>For >100, Deduct</i>	-10.34	



Concrete	03	CS	
Concrete Forming and Accessories			03 10
Concrete Accessories			03 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	102.28	
For Galvanized, Add	27.85	
For Stainless Steel, Add	194.92	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-6.05	
For >100, Deduct	-12.10	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	118.21	
For Galvanized, Add	29.99	
For Stainless Steel, Add	209.93	
For >10 To 50, Deduct	-2.91	
For >50 To 100, Deduct	-7.32	
For >100, Deduct	-14.65	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	83.37	
For Galvanized, Add	27.99	
For Stainless Steel, Add	195.90	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-4.14	
For >100, Deduct	-8.28	
03 15 19 00-0094 EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	91.57	
For Galvanized, Add	30.26	
For Stainless Steel, Add	211.79	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-4.62	
For >100, Deduct	-9.24	
03 15 19 00-0095 EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	101.80	
For Galvanized, Add	32.98	
For Stainless Steel, Add	230.86	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-5.23	
For >100, Deduct	-10.47	
03 15 19 00-0096 EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	112.21	
For Galvanized, Add	34.93	
For Stainless Steel, Add	244.48	
For >10 To 50, Deduct	-2.12	
For >50 To 100, Deduct	-5.98	
For >100, Deduct	-11.96	
03 15 19 00-0097 EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	121.65	
For Galvanized, Add	37.53	
For Stainless Steel, Add	262.71	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-6.54	
For >100, Deduct	-13.07	
03 15 19 00-0098 EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	131.91	
For Galvanized, Add	40.08	
For Stainless Steel, Add	280.53	
For >10 To 50, Deduct	-2.59	
For >50 To 100, Deduct	-7.18	
For >100, Deduct	-14.36	
03 15 19 00-0099 EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	152.64	
For Galvanized, Add	43.04	
For Stainless Steel, Add	301.28	
For >10 To 50, Deduct	-3.33	
For >50 To 100, Deduct	-8.81	
For >100, Deduct	-17.62	
03 15 19 00-0100 EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	161.19	
For Galvanized, Add	47.32	
For Stainless Steel, Add	331.21	
For >10 To 50, Deduct	-3.33	
For >50 To 100, Deduct	-9.02	
For >100, Deduct	-18.04	
03 15 19 00-0101 EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	182.84	
For Galvanized, Add	52.60	
For Stainless Steel, Add	368.17	
For >10 To 50, Deduct	-3.88	
For >50 To 100, Deduct	-10.39	
For >100, Deduct	-20.79	
03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0096)		
03 15 19 00-0103 EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.76	
For Galvanized, Add	62.18	
For Stainless Steel, Add	435.26	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-5.85	
For >100, Deduct	-11.70	
03 15 19 00-0104 EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	161.05	
For Galvanized, Add	65.00	
For Stainless Steel, Add	454.97	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-6.36	
For >100, Deduct	-12.71	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15	19 00-0105	EA	2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	176.81	
			<i>For Galvanized, Add</i>	70.49	
			<i>For Stainless Steel, Add</i>	493.40	
			<i>For >10 To 50, Deduct</i>	-1.79	
			<i>For >50 To 100, Deduct</i>	-7.11	
			<i>For >100, Deduct</i>	-14.22	
03 15	19 00-0106	EA	2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	190.92	
			<i>For Galvanized, Add</i>	74.28	
			<i>For Stainless Steel, Add</i>	519.96	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-7.95	
			<i>For >100, Deduct</i>	-15.90	
03 15	19 00-0107	EA	2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	203.11	
			<i>For Galvanized, Add</i>	78.26	
			<i>For Stainless Steel, Add</i>	547.82	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-8.57	
			<i>For >100, Deduct</i>	-17.14	
03 15	19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	217.20	
			<i>For Galvanized, Add</i>	82.72	
			<i>For Stainless Steel, Add</i>	579.04	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-9.31	
			<i>For >100, Deduct</i>	-18.62	
03 15	19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	241.13	
			<i>For Galvanized, Add</i>	87.29	
			<i>For Stainless Steel, Add</i>	611.00	
			<i>For >10 To 50, Deduct</i>	-3.33	
			<i>For >50 To 100, Deduct</i>	-11.02	
			<i>For >100, Deduct</i>	-22.04	
03 15	19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	169.90	
			<i>For Galvanized, Add</i>	70.39	
			<i>For Stainless Steel, Add</i>	492.73	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-6.43	
			<i>For >100, Deduct</i>	-12.86	
03 15	19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	183.87	
			<i>For Galvanized, Add</i>	75.30	
			<i>For Stainless Steel, Add</i>	527.07	
			<i>For >10 To 50, Deduct</i>	-1.66	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100, Deduct</i>	-14.19	
03 15	19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	199.32	
			<i>For Galvanized, Add</i>	80.25	
			<i>For Stainless Steel, Add</i>	561.75	
			<i>For >10 To 50, Deduct</i>	-1.94	
			<i>For >50 To 100, Deduct</i>	-7.89	
			<i>For >100, Deduct</i>	-15.79	
03 15	19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	216.01	
			<i>For Galvanized, Add</i>	84.71	
			<i>For Stainless Steel, Add</i>	592.97	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-8.89	
			<i>For >100, Deduct</i>	-17.79	
03 15	19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	230.93	
			<i>For Galvanized, Add</i>	89.59	
			<i>For Stainless Steel, Add</i>	627.10	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-9.66	
			<i>For >100, Deduct</i>	-19.31	
03 15	19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	251.24	
			<i>For Galvanized, Add</i>	96.51	
			<i>For Stainless Steel, Add</i>	675.54	
			<i>For >10 To 50, Deduct</i>	-2.91	
			<i>For >50 To 100, Deduct</i>	-10.65	
			<i>For >100, Deduct</i>	-21.30	
03 15	19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	281.27	
			<i>For Galvanized, Add</i>	101.81	
			<i>For Stainless Steel, Add</i>	712.67	
			<i>For >10 To 50, Deduct</i>	-3.88	
			<i>For >50 To 100, Deduct</i>	-12.86	
			<i>For >100, Deduct</i>	-25.71	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.60	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.01	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.49	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.05	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.61	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.03	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.52	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.09	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.62	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.05	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.56	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.15	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.76	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.42	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.17	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.06	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.99	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	8.22	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	13.93	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.21	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.85	
03 21 11 00-0023 LF #8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.53	
03 21 11 00-0024 LF #9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.31	
03 21 11 00-0025 LF #10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.24	
03 21 11 00-0026 LF #11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	6.20	
03 21 11 00-0027 LF #14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	8.53	
03 21 11 00-0028 LF #18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	14.49	
03 21 11 00-0029 LF #3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.63	
03 21 11 00-0030 LF #4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.07	
03 21 11 00-0031 LF #5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.60	
03 21 11 00-0032 LF #6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.20	
03 21 11 00-0033 LF #7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.83	
03 21 11 00-0034 LF #8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.50	
03 21 11 00-0035 LF #9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.28	
03 21 11 00-0036 LF #10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.19	
03 21 11 00-0037 LF #11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	6.15	
03 21 11 00-0038 LF #14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	8.46	
03 21 11 00-0039 LF #18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	14.35	

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0041 LF #3, Grade 40, Columns, Steel Reinforcement Bar.....	0.63	
03 21 11 00-0042 LF #4, Grade 40, Columns, Steel Reinforcement Bar.....	1.08	
03 21 11 00-0043 LF #5, Grade 40, Columns, Steel Reinforcement Bar.....	1.58	
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.17	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.64	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.10	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.61	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.21	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.65	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.12	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.65	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.27	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	2.92	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	3.59	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	4.37	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	5.29	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	6.25	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	8.58	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	14.48	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.33	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	3.01	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	3.70	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	4.51	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	5.47	
03 21 11 00-0065 LF #11, Grade 75, Columns, Steel Reinforcement Bar.....	6.46	
03 21 11 00-0066 LF #14, Grade 75, Columns, Steel Reinforcement Bar.....	8.89	
03 21 11 00-0067 LF #18, Grade 75, Columns, Steel Reinforcement Bar.....	15.04	
03 21 11 00-0068 LF #3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.66	
03 21 11 00-0069 LF #4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.14	
03 21 11 00-0070 LF #5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.69	
03 21 11 00-0071 LF #6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.32	
03 21 11 00-0072 LF #7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.99	
03 21 11 00-0073 LF #8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.67	
03 21 11 00-0074 LF #9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.48	
03 21 11 00-0075 LF #10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.42	
03 21 11 00-0076 LF #11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	6.41	
03 21 11 00-0077 LF #14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	8.82	
03 21 11 00-0078 LF #18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	14.90	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0079

Footings, Steel Reinforcement Bar ^(03 21 11)

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.54
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	0.92
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.36
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	1.87
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.55
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	0.94
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.39
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	1.91
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.56
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	0.96
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	1.43
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	1.97
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	2.54
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	3.15
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	3.86
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	4.70
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	5.58
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	7.70
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	13.09
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	2.03
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	2.63
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	3.26
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	4.00
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	4.88
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	5.79
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	8.01
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	13.65
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.57
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.98
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.47
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.02
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.61
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.23
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.97
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.83
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.74
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.94
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	13.51

03 21 11 00-0118

Slab On Grade, Steel Reinforcement Bar ^(03 21 11)

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

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.52
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.88
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.31
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.80
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.53
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.90
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.34
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.84
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.54
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.92
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.38
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.90
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.47
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.06
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.76
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.58
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.45
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	7.52
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	12.82
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	1.96
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.56
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.17
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.90
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.76
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.66
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	7.83
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	13.38
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.55
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.94
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.42
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.95
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.54
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.14
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.87
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.71
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.61
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	7.76



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	13.24	
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03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.48	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.81	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.22	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.68	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.49	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.83	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.25	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.72	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.50	
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.85	
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.29	
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.78	
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	2.32	
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	2.88	
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	3.55	
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	4.35	
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	5.18	
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	7.17	
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	12.28	
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	1.84	
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.41	
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.99	
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	3.69	
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	4.53	
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	5.39	
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	7.48	
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	12.84	
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.51	
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.87	
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	1.33	
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	1.83	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.39	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.96	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	3.66	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	4.48	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	5.34	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	7.41	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	12.70	

03 21 11 00-0196 Walls, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar.....	0.46	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar.....	0.78	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar.....	1.17	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar.....	1.62	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar.....	0.47	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar.....	0.80	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar.....	1.20	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar.....	1.66	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar.....	0.48	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar.....	0.82	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar.....	1.24	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar.....	1.72	
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar.....	2.23	
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar.....	2.80	
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar.....	3.45	
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar.....	4.22	
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar.....	5.05	
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar.....	7.00	
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar.....	12.00	
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar.....	1.78	
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar.....	2.32	
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar.....	2.91	
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar.....	3.59	
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar.....	4.40	
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar.....	5.26	
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar.....	7.31	
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar.....	12.56	
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.49	
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.84	
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.28	
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.77	
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	2.30	
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	2.88	
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	3.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.35	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.21	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	7.24	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	12.42	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	188.58	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	104.23	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	2.90	
			For Up To 12" Length, Deduct	-0.34	
			For >12" To <24" Length, Deduct	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.47	
			For Up To 12" Length, Deduct	-0.45	
			For >12" To <24" Length, Deduct	-0.22	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	4.24	
			For Up To 12" Length, Deduct	-0.71	
			For >12" To <24" Length, Deduct	-0.35	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	5.16	
			For Up To 12" Length, Deduct	-1.02	
			For >12" To <24" Length, Deduct	-0.51	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	6.08	
			For Up To 12" Length, Deduct	-1.42	
			For >12" To <24" Length, Deduct	-0.71	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	7.67	
			For Up To 12" Length, Deduct	-1.82	
			For >12" To <24" Length, Deduct	-0.91	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.04	
			For Up To 12" Length, Deduct	-2.24	
			For >12" To <24" Length, Deduct	-1.12	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.08	
			For Up To 12" Length, Deduct	-2.94	
			For >12" To <24" Length, Deduct	-1.47	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.16	
			For Up To 12" Length, Deduct	-3.62	
			For >12" To <24" Length, Deduct	-1.81	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,434.94	
			For Grade 75, Add	132.89	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,395.02	
			For Grade 75, Add	132.89	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,364.58	
			For Grade 75, Add	132.89	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,314.79	
			For Grade 75, Add	132.89	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,247.46	
			For Grade 75, Add	132.89	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,224.45	
			For Grade 75, Add	136.16	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,168.08	
			For Grade 75, Add	136.16	
03 21 11 00-0258			Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259	EA		Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	27.53	
03 21 11 00-0260	EA		Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment.....	28.72	
03 21 11 00-0261			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0262			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0261)		
03 21 11 00-0263	EA		Up To #6 Reinforcing Steel Lap-Weld Splice	53.35	
03 21 11 00-0264	EA		>#6 Reinforcing Steel Lap-Weld Splice	83.61	
03 21 11 00-0265			Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0261)		
03 21 11 00-0266	EA		Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	29.36	
03 21 11 00-0267	EA		#5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	42.47	
03 21 11 00-0268	EA		#6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	60.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0002	LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.70
03 21 13 00-0003	LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.19
03 21 13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.79
03 21 13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.47
03 21 13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.71
03 21 13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.21
03 21 13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.82
03 21 13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.51
03 21 13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.73
03 21 13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.24
03 21 13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.86
03 21 13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.57
03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.34
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.17
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.13
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.27
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.48
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	10.37
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	17.75
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.63
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.42
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.28
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.27
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.45
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.70
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	10.69
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	18.31

03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.73
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.26
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.88
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.59
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.74
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.28
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.91
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.63
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.76
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.31
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.95
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.69
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.50
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.34
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.33
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.50
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.74
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	10.73
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	18.30
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.75
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.58
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.45
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.47
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.68
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	7.96
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	11.05
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	18.86

03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.64
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.10
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.66
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.29
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.65
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.12
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.69
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.33
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.67
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.15
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.73
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.39
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.12
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.90
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.82



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.91
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.07
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.85
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	16.91
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.45
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.20
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.01
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.96
03 21	13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.09
03 21	13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.29
03 21	13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	10.17
03 21	13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	17.47

03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.62
03 21	13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.06
03 21	13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.61
03 21	13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.22
03 21	13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.63
03 21	13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.08
03 21	13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.64
03 21	13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.26
03 21	13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.65
03 21	13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.11
03 21	13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.68
03 21	13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.32
03 21	13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.05
03 21	13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.81
03 21	13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.72
03 21	13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.79
03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	6.94
03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	9.67
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	16.64
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.38
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.13
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.92
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.86
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.97
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.16
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.99
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	17.20

03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.58
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.99
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.52
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.10
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.59
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.01
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.55
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.14
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.61
03 21	13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.04
03 21	13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.59
03 21	13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.20
03 21	13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.90
03 21	13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.63
03 21	13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.51
03 21	13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.56
03 21	13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.67
03 21	13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	9.32
03 21	13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	16.10
03 21	13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.26
03 21	13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.98
03 21	13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.74
03 21	13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.65
03 21	13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.74
03 21	13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.89
03 21	13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	9.64
03 21	13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	16.66

03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.56
03 21	13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.96
03 21	13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.47



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0145	LF		#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.04	
03 21 13 00-0146	LF		#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.57	
03 21 13 00-0147	LF		#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.98	
03 21 13 00-0148	LF		#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.50	
03 21 13 00-0149	LF		#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.08	
03 21 13 00-0150	LF		#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.59	
03 21 13 00-0151	LF		#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.01	
03 21 13 00-0152	LF		#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.54	
03 21 13 00-0153	LF		#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.14	
03 21 13 00-0154	LF		#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.81	
03 21 13 00-0155	LF		#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.55	
03 21 13 00-0156	LF		#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.41	
03 21 13 00-0157	LF		#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.43	
03 21 13 00-0158	LF		#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.54	
03 21 13 00-0159	LF		#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	9.15	
03 21 13 00-0160	LF		#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	15.82	
03 21 13 00-0161	LF		#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.20	
03 21 13 00-0162	LF		#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.89	
03 21 13 00-0163	LF		#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.66	
03 21 13 00-0164	LF		#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.55	
03 21 13 00-0165	LF		#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.61	
03 21 13 00-0166	LF		#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.76	
03 21 13 00-0167	LF		#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	9.47	
03 21 13 00-0168	LF		#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	16.38	

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002	LF		#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.69	
03 21 16 00-0003	LF		#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.17	
03 21 16 00-0004	LF		#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.75	
03 21 16 00-0005	LF		#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.42	
03 21 16 00-0006	LF		#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.70	
03 21 16 00-0007	LF		#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.19	
03 21 16 00-0008	LF		#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.78	
03 21 16 00-0009	LF		#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.46	
03 21 16 00-0010	LF		#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.72	
03 21 16 00-0011	LF		#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.22	
03 21 16 00-0012	LF		#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.83	
03 21 16 00-0013	LF		#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.53	
03 21 16 00-0014	LF		#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.28	
03 21 16 00-0015	LF		#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.09	
03 21 16 00-0016	LF		#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.02	
03 21 16 00-0017	LF		#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.14	
03 21 16 00-0018	LF		#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.32	
03 21 16 00-0019	LF		#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	10.14	
03 21 16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	17.34	
03 21 16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.59	
03 21 16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.36	
03 21 16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.20	
03 21 16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.16	
03 21 16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.32	
03 21 16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.54	
03 21 16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	10.45	
03 21 16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	17.90	

03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.72	
03 21 16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.24	
03 21 16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.84	
03 21 16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.54	
03 21 16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.73	
03 21 16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.26	
03 21 16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.87	
03 21 16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.58	
03 21 16 00-0038	LF		#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.75	
03 21 16 00-0039	LF		#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.29	
03 21 16 00-0040	LF		#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.92	
03 21 16 00-0041	LF		#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.65	
03 21 16 00-0042	LF		#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.44	
03 21 16 00-0043	LF		#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.26	
03 21 16 00-0044	LF		#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.22	
03 21 16 00-0045	LF		#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.37	
03 21 16 00-0046	LF		#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.58	
03 21 16 00-0047	LF		#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	10.50	
03 21 16 00-0048	LF		#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	17.89	
03 21 16 00-0049	LF		#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.71	
03 21 16 00-0050	LF		#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.52	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.37
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.36
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.55
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.80
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	10.81
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	18.45

03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.63
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.08
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.62
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.24
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.64
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.10
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.65
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.28
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.66
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.13
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.70
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.35
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.06
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.82
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.71
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.78
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	6.91
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	9.62
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	16.50
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.41
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.14
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.93
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.85
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.96
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	7.13
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	9.93
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	17.06

03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.61
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.04
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.57
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.17
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.62
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.06
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.60
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.21
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.64
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.09
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.65
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.28
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.99
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.73
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.61
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.66
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.78
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.44
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	16.23
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.34
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.07
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.84
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.75
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.84
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.00
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.75
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	16.79

03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.57
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.97
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.48
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.05
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.58
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.99
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.51
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.09
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.60



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0123 LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.02	
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.56	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.16	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.84	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.55	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.40	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.43	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.51	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.09	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	15.69	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.22	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.92	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.66	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.54	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.61	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.73	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.40	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	16.25	

03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.55	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.94	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.43	
03 21 16 00-0145 LF #6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.99	
03 21 16 00-0146 LF #3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.56	
03 21 16 00-0147 LF #4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.96	
03 21 16 00-0148 LF #5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.46	
03 21 16 00-0149 LF #6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.03	
03 21 16 00-0150 LF #3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.58	
03 21 16 00-0151 LF #4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.99	
03 21 16 00-0152 LF #5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.51	
03 21 16 00-0153 LF #6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.10	
03 21 16 00-0154 LF #7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.75	
03 21 16 00-0155 LF #8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.47	
03 21 16 00-0156 LF #9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.30	
03 21 16 00-0157 LF #10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.30	
03 21 16 00-0158 LF #11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.38	
03 21 16 00-0159 LF #14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.92	
03 21 16 00-0160 LF #18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.41	
03 21 16 00-0161 LF #6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.16	
03 21 16 00-0162 LF #7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.83	
03 21 16 00-0163 LF #8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.58	
03 21 16 00-0164 LF #9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.44	
03 21 16 00-0165 LF #10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.48	
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.60	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	9.23	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.97	

03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)

Note: Excludes drilling.

03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.82	
For Up To 12" Length, Deduct	-0.48	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.67	
For Up To 12" Length, Deduct	-0.72	
For >12" To <24" Length, Deduct	-0.36	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.02	
For Up To 12" Length, Deduct	-1.07	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.72	
For Up To 12" Length, Deduct	-1.43	
For >12" To <24" Length, Deduct	-0.71	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.48	
For Up To 12" Length, Deduct	-1.94	
For >12" To <24" Length, Deduct	-0.97	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.19	
For Up To 12" Length, Deduct	-2.39	
For >12" To <24" Length, Deduct	-1.20	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	14.39	
For Up To 12" Length, Deduct	-2.90	
For >12" To <24" Length, Deduct	-1.45	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	17.32	
For Up To 12" Length, Deduct	-3.51	
For >12" To <24" Length, Deduct	-1.75	

03 22 Fabric and Grid Reinforcing (03 20)

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

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

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 11 00-0001			Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11) Note: Includes bar chairs. Under 5 tons. ASTM A-185		
03 22 11 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	0.81 -0.12	
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	0.93 -0.14	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.06 -0.16	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.26 -0.18	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	0.97 -0.14	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	1.10 -0.16	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.39 -0.19	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.62 -0.22	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9) <i>For >5 Ton, Deduct</i>	1.51 -0.20	
03 22 13			Galvanized Welded Wire Fabric Reinforcing (03 22)		
03 22 13 00-0001			Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13) Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	0.91 -0.13	
03 22 13 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	1.04 -0.15	
03 22 13 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.21 -0.17	
03 22 13 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.46 -0.20	
03 22 13 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	1.10 -0.16	
03 22 13 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	1.26 -0.18	
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.65 -0.22	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.95 -0.25	
03 22 13 00-0010			Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13) Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5) <i>For >5 Ton, Deduct</i>	3.16 -0.49	
03 22 16			Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)		
03 22 16 00-0001			Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16) Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	0.89 -0.13	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	1.02 -0.15	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.19 -0.17	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.43 -0.20	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) <i>For >5 Ton, Deduct</i>	1.08 -0.15	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) <i>For >5 Ton, Deduct</i>	1.24 -0.17	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) <i>For >5 Ton, Deduct</i>	1.62 -0.21	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) <i>For >5 Ton, Deduct</i>	1.91 -0.25	
03 22 23			Stainless Steel Welded Wire Fabric Reinforcing (03 22) Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
03 22 23 00-0001			Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 23)		
03 22 23 00-0002	SF		6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.51	
03 22 23 00-0003	SF		4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.94	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0039 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)

03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)

03 30 53 00-0002	CY	Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	289.27
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.88
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.94
		<i>For 3,500 PSI Concrete, Add</i>	11.00
		<i>For 3,750 PSI Concrete, Add</i>	14.96
		<i>For 4,000 PSI Concrete, Add</i>	18.92
		<i>For 4,500 PSI Concrete, Add</i>	22.00
		<i>For 5,000 PSI Concrete, Add</i>	25.08
		<i>For 6,000 PSI Concrete, Add</i>	59.40
		<i>For White Cement Concrete, Add</i>	26.40
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00
		<i>For Up To 20, Add</i>	27.71
		<i>For >20 To 50, Add</i>	10.39
		<i>For >100 To 200, Deduct</i>	-5.79
		<i>For >200 To 400, Deduct</i>	-11.57
		<i>For >400, Deduct</i>	-17.36

03 30 53 00-0003 Place Concrete Slurry (03 30 53)

03 30 53 00-0004	CY	Direct Chute, Place Two Sack Cement, Concrete Slurry	229.18
		Note: Two 94# sack cement per CY.	
03 30 53 00-0005	CY	Concrete Pump, Place Two Sack Cement, Concrete Slurry	223.06
		Note: Two 94# sack cement per CY. Excludes pumping equipment.	

03 30 53 00-0006 Hand Mix And Place Concrete (03 30 53)

03 30 53 00-0007	CF	Hand Mix And Place Concrete	32.59
		Note: For use where conventional equipment access is limited or when directed by the owner.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-0.51
		<i>For 2,500 PSI Concrete, Deduct</i>	-0.25
		<i>For 3,500 PSI Concrete, Add</i>	0.47
		<i>For 3,750 PSI Concrete, Add</i>	0.64
		<i>For 4,000 PSI Concrete, Add</i>	0.81
		<i>For 4,500 PSI Concrete, Add</i>	0.94
		<i>For 5,000 PSI Concrete, Add</i>	1.07
		<i>For 6,000 PSI Concrete, Add</i>	2.54
		<i>For White Cement Concrete, Add</i>	1.13
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	1.22
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	0.94
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	2.82

03 31 Structural Concrete (03 30)

03 31 13 Heavyweight Structural Concrete (03 31)

Note: Includes delivery, fuel charge and placement of material. See CSI section 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.

03 31 13 00-0003	SF	4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.85
		<i>For 2,000 PSI Concrete, Deduct</i>	-0.29
		<i>For 2,500 PSI Concrete, Deduct</i>	-0.14
		<i>For 3,500 PSI Concrete, Add</i>	0.10
		<i>For 4,000 PSI Concrete, Add</i>	0.34
		<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13
		<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40
		<i>For Up To 500, Add</i>	3.17
		<i>For >500 To 1,000, Add</i>	2.21
		<i>For >1,000 To 2,000, Add</i>	1.24
		<i>For >2,000 To 5,000, Add</i>	0.62
		<i>For >10,000 To 20,000, Deduct</i>	-0.27
		<i>For >20,000 To 35,000, Deduct</i>	-0.49
		<i>For >35,000 To 50,000, Deduct</i>	-0.71
		<i>For >50,000 To 70,000, Deduct</i>	-0.93
		<i>For >70,000, Deduct</i>	-1.15

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 13 00-0004	SF	5"	3,000 PSI Slab On Grade Concrete Slabs Assembly	9.74	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.33	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.16	
			<i>For 3,500 PSI Concrete, Add</i>	0.12	
			<i>For 4,000 PSI Concrete, Add</i>	0.38	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	3.42	
			<i>For >500 To 1,000, Add</i>	2.38	
			<i>For >1,000 To 2,000, Add</i>	1.34	
			<i>For >2,000 To 5,000, Add</i>	0.67	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000 To 35,000, Deduct</i>	-0.55	
			<i>For >35,000 To 50,000, Deduct</i>	-0.79	
			<i>For >50,000 To 70,000, Deduct</i>	-1.03	
			<i>For >70,000, Deduct</i>	-1.28	
03 31 13 00-0005	SF	6"	3,000 PSI Slab On Grade Concrete Slabs Assembly	11.01	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.38	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.19	
			<i>For 3,500 PSI Concrete, Add</i>	0.13	
			<i>For 4,000 PSI Concrete, Add</i>	0.45	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	3.77	
			<i>For >500 To 1,000, Add</i>	2.63	
			<i>For >1,000 To 2,000, Add</i>	1.49	
			<i>For >2,000 To 5,000, Add</i>	0.75	
			<i>For >10,000 To 20,000, Deduct</i>	-0.35	
			<i>For >20,000 To 35,000, Deduct</i>	-0.63	
			<i>For >35,000 To 50,000, Deduct</i>	-0.91	
			<i>For >50,000 To 70,000, Deduct</i>	-1.18	
			<i>For >70,000, Deduct</i>	-1.46	
03 31 13 00-0006	SF	7"	3,000 PSI Slab On Grade Concrete Slabs Assembly	12.23	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.44	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.22	
			<i>For 3,500 PSI Concrete, Add</i>	0.16	
			<i>For 4,000 PSI Concrete, Add</i>	0.51	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	4.07	
			<i>For >500 To 1,000, Add</i>	2.85	
			<i>For >1,000 To 2,000, Add</i>	1.63	
			<i>For >2,000 To 5,000, Add</i>	0.82	
			<i>For >10,000 To 20,000, Deduct</i>	-0.41	
			<i>For >20,000 To 35,000, Deduct</i>	-0.71	
			<i>For >35,000 To 50,000, Deduct</i>	-1.02	
			<i>For >50,000 To 70,000, Deduct</i>	-1.33	
			<i>For >70,000, Deduct</i>	-1.63	
03 31 13 00-0007	SF	8"	3,000 PSI Slab On Grade Concrete Slabs Assembly	13.27	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.49	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.24	
			<i>For 3,500 PSI Concrete, Add</i>	0.17	
			<i>For 4,000 PSI Concrete, Add</i>	0.57	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	4.35	
			<i>For >500 To 1,000, Add</i>	3.05	
			<i>For >1,000 To 2,000, Add</i>	1.75	
			<i>For >2,000 To 5,000, Add</i>	0.88	
			<i>For >10,000 To 20,000, Deduct</i>	-0.45	
			<i>For >20,000 To 35,000, Deduct</i>	-0.78	
			<i>For >35,000 To 50,000, Deduct</i>	-1.12	
			<i>For >50,000 To 70,000, Deduct</i>	-1.45	
			<i>For >70,000, Deduct</i>	-1.78	
03 31 13 00-0008	SF	10"	3,000 PSI Slab On Grade Concrete Slabs Assembly	15.97	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.62	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.31	
			<i>For 3,500 PSI Concrete, Add</i>	0.22	
			<i>For 4,000 PSI Concrete, Add</i>	0.72	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	5.02	
			<i>For >500 To 1,000, Add</i>	3.54	
			<i>For >1,000 To 2,000, Add</i>	2.05	
			<i>For >2,000 To 5,000, Add</i>	1.03	
			<i>For >10,000 To 20,000, Deduct</i>	-0.57	
			<i>For >20,000 To 35,000, Deduct</i>	-0.97	
			<i>For >35,000 To 50,000, Deduct</i>	-1.37	
			<i>For >50,000 To 70,000, Deduct</i>	-1.77	
			<i>For >70,000, Deduct</i>	-2.17	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	18.04	
For 2,000 PSI Concrete, Deduct	-0.71	
For 2,500 PSI Concrete, Deduct	-0.36	
For 3,500 PSI Concrete, Add	0.25	
For 4,000 PSI Concrete, Add	0.83	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	5.56	
For >500 To 1,000, Add	3.93	
For >1,000 To 2,000, Add	2.29	
For >2,000 To 5,000, Add	1.15	
For >10,000 To 20,000, Deduct	-0.66	
For >20,000 To 35,000, Deduct	-1.11	
For >35,000 To 50,000, Deduct	-1.56	
For >50,000 To 70,000, Deduct	-2.01	
For >70,000, Deduct	-2.46	
 03 31 13 00-0010 Concrete Delivery And Placement <small>(03 31 13)</small>		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
 03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small>		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
 03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	335.02	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	46.01	
For >20 To 50, Add	17.25	
For >100 To 200, Deduct	-6.70	
For >200 To 400, Deduct	-13.40	
For >400, Deduct	-20.10	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	270.92	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	20.37	
For >20 To 50, Add	7.64	
For >100 To 200, Deduct	-5.42	
For >200 To 400, Deduct	-10.84	
For >400, Deduct	-16.26	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	286.83	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	19.40	
For >20 To 50, Add	7.28	
For >100 To 200, Deduct	-5.74	
For >200 To 400, Deduct	-11.47	
For >400, Deduct	-17.21	
 03 31 13 00-0016 Place Concrete Continuous Footings <small>(03 31 13 00-0011)</small>		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	322.22	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	40.89	
	For >20 To 50, Add	15.33	
	For >100 To 200, Deduct	-6.44	
	For >200 To 400, Deduct	-12.89	
	For >400, Deduct	-19.33	
03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	265.27	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	18.11	
	For >20 To 50, Add	6.79	
	For >100 To 200, Deduct	-5.31	
	For >200 To 400, Deduct	-10.61	
	For >400, Deduct	-15.92	
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	281.44	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	17.25	
	For >20 To 50, Add	6.47	
	For >100 To 200, Deduct	-5.63	
	For >200 To 400, Deduct	-11.26	
	For >400, Deduct	-16.89	
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	392.51	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	69.01	
	For >20 To 50, Add	25.88	
	For >100 To 200, Deduct	-7.85	
	For >200 To 400, Deduct	-15.70	
	For >400, Deduct	-23.55	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0022 CY Direct Chute, Place 3,000 PSI Concrete Spread Footings	296.39	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	30.56	
For >20 To 50, Add	11.46	
For >100 To 200, Deduct	-5.93	
For >200 To 400, Deduct	-11.86	
For >400, Deduct	-17.78	
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings	311.09	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	29.11	
For >20 To 50, Add	10.92	
For >100 To 200, Deduct	-6.22	
For >200 To 400, Deduct	-12.44	
For >400, Deduct	-18.67	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	250.66	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	12.27	
For >20 To 50, Add	4.60	
For >100 To 200, Deduct	-5.01	
For >200 To 400, Deduct	-10.03	
For >400, Deduct	-15.04	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	233.58	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	5.44	
For >20 To 50, Add	2.04	
For >100 To 200, Deduct	-4.67	
For >200 To 400, Deduct	-9.34	
For >400, Deduct	-14.01	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 31 13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	249.64	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	4.53	
			For >20 To 50, Add	1.70	
			For >100 To 200, Deduct	-4.99	
			For >200 To 400, Deduct	-9.99	
			For >400, Deduct	-14.98	
	03 31 13 00-0028		Place Concrete Grade Beams (03 31 13 00-0011)		
	03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	301.78	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	32.72	
			For >20 To 50, Add	12.27	
			For >100 To 200, Deduct	-6.04	
			For >200 To 400, Deduct	-12.07	
			For >400, Deduct	-18.11	
	03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	256.20	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	14.48	
			For >20 To 50, Add	5.43	
			For >100 To 200, Deduct	-5.12	
			For >200 To 400, Deduct	-10.25	
			For >400, Deduct	-15.37	
	03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	272.82	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	13.80	
			For >20 To 50, Add	5.18	
			For >100 To 200, Deduct	-5.46	
			For >200 To 400, Deduct	-10.91	
			For >400, Deduct	-16.37	
	03 31 13 00-0032		Place Concrete Slab On Grade (03 31 13 00-0011)		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0033 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	303.70	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	33.48	
For >20 To 50, Add	12.56	
For >100 To 200, Deduct	-6.07	
For >200 To 400, Deduct	-12.15	
For >400, Deduct	-18.22	
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	283.51	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	25.41	
For >20 To 50, Add	9.53	
For >100 To 200, Deduct	-5.67	
For >200 To 400, Deduct	-11.34	
For >400, Deduct	-17.01	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	257.07	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	14.83	
For >20 To 50, Add	5.56	
For >100 To 200, Deduct	-5.14	
For >200 To 400, Deduct	-10.28	
For >400, Deduct	-15.42	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	248.11	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	11.25	
For >20 To 50, Add	4.22	
For >100 To 200, Deduct	-4.96	
For >200 To 400, Deduct	-9.92	
For >400, Deduct	-14.89	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	269.22
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-12.87
		For 2,500 PSI Concrete, Deduct	-6.43
		For 3,500 PSI Concrete, Add	11.92
		For 3,750 PSI Concrete, Add	16.21
		For 4,000 PSI Concrete, Add	20.50
		For 4,500 PSI Concrete, Add	23.83
		For 5,000 PSI Concrete, Add	27.17
		For 6,000 PSI Concrete, Add	64.35
		For White Cement Concrete, Add	28.60
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98
		For High Early Strength, Type 3 ASTM C150, Add	23.83
		For Lightweight Aggregate, ASTM C330, Add	71.50
		For Up To 20, Add	12.36
		For >20 To 50, Add	4.64
		For >100 To 200, Deduct	-5.38
		For >200 To 400, Deduct	-10.77
		For >400, Deduct	-16.15
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	261.76
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-12.87
		For 2,500 PSI Concrete, Deduct	-6.43
		For 3,500 PSI Concrete, Add	11.92
		For 3,750 PSI Concrete, Add	16.21
		For 4,000 PSI Concrete, Add	20.50
		For 4,500 PSI Concrete, Add	23.83
		For 5,000 PSI Concrete, Add	27.17
		For 6,000 PSI Concrete, Add	64.35
		For White Cement Concrete, Add	28.60
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98
		For High Early Strength, Type 3 ASTM C150, Add	23.83
		For Lightweight Aggregate, ASTM C330, Add	71.50
		For Up To 20, Add	9.38
		For >20 To 50, Add	3.52
		For >100 To 200, Deduct	-5.24
		For >200 To 400, Deduct	-10.47
		For >400, Deduct	-15.71
03 31 13 00-0039		Place Concrete Duct Bank (03 31 13 00-0011)	
03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	250.67
		For 2,000 PSI Concrete, Deduct	-11.88
		For 2,500 PSI Concrete, Deduct	-5.94
		For 3,500 PSI Concrete, Add	11.00
		For 3,750 PSI Concrete, Add	14.96
		For 4,000 PSI Concrete, Add	18.92
		For 4,500 PSI Concrete, Add	22.00
		For 5,000 PSI Concrete, Add	25.08
		For 6,000 PSI Concrete, Add	59.40
		For White Cement Concrete, Add	26.40
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60
		For High Early Strength, Type 3 ASTM C150, Add	22.00
		For Lightweight Aggregate, ASTM C330, Add	66.00
		For Up To 20, Add	12.27
		For >20 To 50, Add	4.60
		For >100 To 200, Deduct	-5.01
		For >200 To 400, Deduct	-10.03
		For >400, Deduct	-15.04
03 31 13 00-0041		Place Concrete Stairs (03 31 13 00-0011)	
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	596.61
		For 2,000 PSI Concrete, Deduct	-11.88
		For 2,500 PSI Concrete, Deduct	-5.94
		For 3,500 PSI Concrete, Add	11.00
		For 3,750 PSI Concrete, Add	14.96
		For 4,000 PSI Concrete, Add	18.92
		For 4,500 PSI Concrete, Add	22.00
		For 5,000 PSI Concrete, Add	25.08
		For 6,000 PSI Concrete, Add	59.40
		For White Cement Concrete, Add	26.40
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60
		For High Early Strength, Type 3 ASTM C150, Add	22.00
		For Lightweight Aggregate, ASTM C330, Add	66.00
		For Up To 20, Add	150.65
		For >20 To 50, Add	56.49
		For >100 To 200, Deduct	-11.93
		For >200 To 400, Deduct	-23.86
		For >400, Deduct	-35.80



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0043 CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	386.81	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	66.73	
For >20 To 50, Add	25.02	
For >100 To 200, Deduct	-7.74	
For >200 To 400, Deduct	-15.47	
For >400, Deduct	-23.21	
03 31 13 00-0044 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	377.36	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	55.62	
For >20 To 50, Add	20.86	
For >100 To 200, Deduct	-7.55	
For >200 To 400, Deduct	-15.09	
For >400, Deduct	-22.64	
03 31 13 00-0045 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)		
See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0046 Place Elevated Concrete Beams (03 31 13 00-0045)		
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams.....	424.46	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	81.79	
For >20 To 50, Add	30.67	
For >100 To 200, Deduct	-8.49	
For >200 To 400, Deduct	-16.98	
For >400, Deduct	-25.47	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	324.56	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	34.50	
For >20 To 50, Add	12.94	
For >100 To 200, Deduct	-6.49	
For >200 To 400, Deduct	-12.98	
For >400, Deduct	-19.47	
03 31 13 00-0049 Place Elevated Concrete Slab (03 31 13 00-0045)		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0050	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab.....	316.25	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.88	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.94	
		<i>For 3,500 PSI Concrete, Add</i>	11.00	
		<i>For 3,750 PSI Concrete, Add</i>	14.96	
		<i>For 4,000 PSI Concrete, Add</i>	18.92	
		<i>For 4,500 PSI Concrete, Add</i>	22.00	
		<i>For 5,000 PSI Concrete, Add</i>	25.08	
		<i>For 6,000 PSI Concrete, Add</i>	59.40	
		<i>For White Cement Concrete, Add</i>	26.40	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00	
		<i>For Up To 20, Add</i>	38.50	
		<i>For >20 To 50, Add</i>	14.44	
		<i>For >100 To 200, Deduct</i>	-6.33	
		<i>For >200 To 400, Deduct</i>	-12.65	
		<i>For >400, Deduct</i>	-18.98	
03 31 13 00-0051	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	293.02	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.88	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.94	
		<i>For 3,500 PSI Concrete, Add</i>	11.00	
		<i>For 3,750 PSI Concrete, Add</i>	14.96	
		<i>For 4,000 PSI Concrete, Add</i>	18.92	
		<i>For 4,500 PSI Concrete, Add</i>	22.00	
		<i>For 5,000 PSI Concrete, Add</i>	25.08	
		<i>For 6,000 PSI Concrete, Add</i>	59.40	
		<i>For White Cement Concrete, Add</i>	26.40	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00	
		<i>For Up To 20, Add</i>	29.21	
		<i>For >20 To 50, Add</i>	10.95	
		<i>For >100 To 200, Deduct</i>	-5.86	
		<i>For >200 To 400, Deduct</i>	-11.72	
		<i>For >400, Deduct</i>	-17.58	
03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	278.92	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.87	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.43	
		<i>For 3,500 PSI Concrete, Add</i>	11.92	
		<i>For 3,750 PSI Concrete, Add</i>	16.21	
		<i>For 4,000 PSI Concrete, Add</i>	20.50	
		<i>For 4,500 PSI Concrete, Add</i>	23.83	
		<i>For 5,000 PSI Concrete, Add</i>	27.17	
		<i>For 6,000 PSI Concrete, Add</i>	64.35	
		<i>For White Cement Concrete, Add</i>	28.60	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.98	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.83	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	71.50	
		<i>For Up To 20, Add</i>	16.24	
		<i>For >20 To 50, Add</i>	6.09	
		<i>For >100 To 200, Deduct</i>	-5.58	
		<i>For >200 To 400, Deduct</i>	-11.16	
		<i>For >400, Deduct</i>	-16.74	
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	269.13	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.87	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.43	
		<i>For 3,500 PSI Concrete, Add</i>	11.92	
		<i>For 3,750 PSI Concrete, Add</i>	16.21	
		<i>For 4,000 PSI Concrete, Add</i>	20.50	
		<i>For 4,500 PSI Concrete, Add</i>	23.83	
		<i>For 5,000 PSI Concrete, Add</i>	27.17	
		<i>For 6,000 PSI Concrete, Add</i>	64.35	
		<i>For White Cement Concrete, Add</i>	28.60	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.98	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.83	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	71.50	
		<i>For Up To 20, Add</i>	12.32	
		<i>For >20 To 50, Add</i>	4.62	
		<i>For >100 To 200, Deduct</i>	-5.38	
		<i>For >200 To 400, Deduct</i>	-10.77	
		<i>For >400, Deduct</i>	-16.15	

03 31 13 00-0054 Place Concrete Columns (03 31 13 00-0045)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0055 CY 12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	440.81	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	88.33	
For >20 To 50, Add	33.12	
For >100 To 200, Deduct	-8.82	
For >200 To 400, Deduct	-17.63	
For >400, Deduct	-26.45	
03 31 13 00-0056 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	380.50	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	64.20	
For >20 To 50, Add	24.08	
For >100 To 200, Deduct	-7.61	
For >200 To 400, Deduct	-15.22	
For >400, Deduct	-22.83	
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	337.36	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	46.95	
For >20 To 50, Add	17.61	
For >100 To 200, Deduct	-6.75	
For >200 To 400, Deduct	-13.49	
For >400, Deduct	-20.24	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	318.13	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	39.26	
For >20 To 50, Add	14.72	
For >100 To 200, Deduct	-6.36	
For >200 To 400, Deduct	-12.73	
For >400, Deduct	-19.09	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0059	CY	12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	331.46	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	37.26	
		For >20 To 50, Add	13.97	
		For >100 To 200, Deduct	-6.63	
		For >200 To 400, Deduct	-13.26	
		For >400, Deduct	-19.89	
03 31 13 00-0060	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	306.02	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	27.08	
		For >20 To 50, Add	10.16	
		For >100 To 200, Deduct	-6.12	
		For >200 To 400, Deduct	-12.24	
		For >400, Deduct	-18.36	
03 31 13 00-0061	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	287.82	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	19.80	
		For >20 To 50, Add	7.43	
		For >100 To 200, Deduct	-5.76	
		For >200 To 400, Deduct	-11.51	
		For >400, Deduct	-17.27	
03 31 13 00-0062	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	279.71	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	16.56	
		For >20 To 50, Add	6.21	
		For >100 To 200, Deduct	-5.59	
		For >200 To 400, Deduct	-11.19	
		For >400, Deduct	-16.78	

03 31 13 00-0063 Place Concrete Walls (03 31 13 00-0045)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0064 CY Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	427.01	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	82.81	
For >20 To 50, Add	31.05	
For >100 To 200, Deduct	-8.54	
For >200 To 400, Deduct	-17.08	
For >400, Deduct	-25.62	
03 31 13 00-0065 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	409.85	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	75.94	
For >20 To 50, Add	28.48	
For >100 To 200, Deduct	-8.20	
For >200 To 400, Deduct	-16.39	
For >400, Deduct	-24.59	
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	364.91	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	57.97	
For >20 To 50, Add	21.74	
For >100 To 200, Deduct	-7.30	
For >200 To 400, Deduct	-14.60	
For >400, Deduct	-21.89	
03 31 13 00-0067 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	311.67	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	36.67	
For >20 To 50, Add	13.75	
For >100 To 200, Deduct	-6.23	
For >200 To 400, Deduct	-12.47	
For >400, Deduct	-18.70	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0068	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	293.34	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	29.34	
	For >20 To 50, Add	11.00	
	For >100 To 200, Deduct	-5.87	
	For >200 To 400, Deduct	-11.73	
	For >400, Deduct	-17.60	
03 31 13 00-0069	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	284.17	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	25.67	
	For >20 To 50, Add	9.63	
	For >100 To 200, Deduct	-5.68	
	For >200 To 400, Deduct	-11.37	
	For >400, Deduct	-17.05	
03 31 13 00-0070	CY Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	325.63	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	34.92	
	For >20 To 50, Add	13.10	
	For >100 To 200, Deduct	-6.51	
	For >200 To 400, Deduct	-13.03	
	For >400, Deduct	-19.54	
03 31 13 00-0071	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	308.17	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	27.94	
	For >20 To 50, Add	10.48	
	For >100 To 200, Deduct	-6.16	
	For >200 To 400, Deduct	-12.33	
	For >400, Deduct	-18.49	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0072 CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	299.44	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	24.45	
For >20 To 50, Add	9.17	
For >100 To 200, Deduct	-5.99	
For >200 To 400, Deduct	-11.98	
For >400, Deduct	-17.97	
03 31 13 00-0073 Place Elevated Concrete Stairs (03 31 13 00-0045)		
03 31 13 00-0074 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	638.51	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	167.41	
For >20 To 50, Add	62.78	
For >100 To 200, Deduct	-12.77	
For >200 To 400, Deduct	-25.54	
For >400, Deduct	-38.31	
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	405.33	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	74.14	
For >20 To 50, Add	27.80	
For >100 To 200, Deduct	-8.11	
For >200 To 400, Deduct	-16.21	
For >400, Deduct	-24.32	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	392.78	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	61.78	
For >20 To 50, Add	23.17	
For >100 To 200, Deduct	-7.86	
For >200 To 400, Deduct	-15.71	
For >400, Deduct	-23.57	
03 31 13 00-0077 Place Concrete Coping (03 31 13 00-0045)		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0078	CY Crane And Bucket, Place 3,000 PSI Concrete Coping	652.98	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	173.20	
	For >20 To 50, Add	64.95	
	For >100 To 200, Deduct	-13.06	
	For >200 To 400, Deduct	-26.12	
	For >400, Deduct	-39.18	
03 31 13 00-0079	CY Direct Chute, Place 3,000 PSI Concrete Coping	404.09	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	73.64	
	For >20 To 50, Add	27.62	
	For >100 To 200, Deduct	-8.08	
	For >200 To 400, Deduct	-16.16	
	For >400, Deduct	-24.25	
03 31 13 00-0080	CY Concrete Pump, Place 3,000 PSI Concrete Coping.....	517.17	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	111.54	
	For >20 To 50, Add	41.83	
	For >100 To 200, Deduct	-10.34	
	For >200 To 400, Deduct	-20.69	
	For >400, Deduct	-31.03	
03 31 13 00-0081	Concrete Carts <small>(03 31 13 00-0010)</small>		
	Note: Used to place concrete were necessary.		
03 31 13 00-0082	CY 50' Haul, Non Motorized, Concrete Buggy	22.10	
03 31 13 00-0083	CY 150' Haul, Non Motorized, Concrete Buggy	29.59	
03 31 13 00-0084	CY 250' Haul, Non Motorized, Concrete Buggy	39.46	
03 31 13 00-0085	CY 50' Haul, Motorized, Concrete Buggy	10.06	
03 31 13 00-0086	CY 150' Haul, Motorized, Concrete Buggy	13.47	
03 31 13 00-0087	CY 250' Haul, Motorized, Concrete Buggy.....	17.97	
03 31 13 00-0088	Delivery Fee For Small Purchases <small>(03 31 13)</small>		
03 31 13 00-0089	CY Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	26.66	
	Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31 13 00-0090	Equipment Pads <small>(03 31 13)</small>		
03 31 13 00-0091	Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0090)</small>		
	Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0092	SF 4" Equipment Pad With Welded Wire Reinforcement	18.08	
	For >5 To 20 Pads, Deduct	-2.11	
	For >20 To 50 Pads, Deduct	-3.87	
	For >50 Pads, Deduct	-5.63	
03 31 13 00-0093	SF 4" Equipment Pad With Rebar	21.88	
	For >5 To 20 Pads, Deduct	-2.44	
	For >20 To 50 Pads, Deduct	-4.47	
	For >50 Pads, Deduct	-6.50	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0094 SF 6" Equipment Pad With Rebar.....	27.88	
<i>For >5 To 20 Pads, Deduct</i>	-3.06	
<i>For >20 To 50 Pads, Deduct</i>	-5.62	
<i>For >50 Pads, Deduct</i>	-8.17	
03 31 13 00-0095 SF 8" Equipment Pad With Rebar.....	35.23	
<i>For >5 To 20 Pads, Deduct</i>	-3.89	
<i>For >20 To 50 Pads, Deduct</i>	-7.13	
<i>For >50 Pads, Deduct</i>	-10.38	
03 31 13 00-0096 Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0097 EA Concrete Delivery Fee, Per Truck.....	40.00	
Note: To be added to all concrete leaving concrete yard		
03 31 16 Lightweight Structural Concrete (03 31)		
03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002 CY Lightweight Low Density Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	256.57	
03 35 Concrete Finishing (03 30)		
03 35 13 High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001 Floor Finishes (03 35 13)		
Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002 SF Screed, Concrete Floor Finish.....	0.92	
<i>For Up To 100, Add</i>	1.84	
<i>For >100 To 250, Add</i>	0.46	
<i>For >250 To 500, Add</i>	0.23	
<i>For >5,000 To 10,000, Deduct</i>	-0.05	
<i>For >10,000, Deduct</i>	-0.09	
03 35 13 00-0003 SF Darby, Concrete Floor Finish.....	1.11	
<i>For Up To 100, Add</i>	2.22	
<i>For >100 To 250, Add</i>	0.56	
<i>For >250 To 500, Add</i>	0.28	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000, Deduct</i>	-0.11	
03 35 13 00-0004 SF Broom, Concrete Floor Finish.....	1.22	
<i>For Up To 100, Add</i>	2.44	
<i>For >100 To 250, Add</i>	0.61	
<i>For >250 To 500, Add</i>	0.31	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000, Deduct</i>	-0.12	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish.....	1.43	
<i>For Up To 100, Add</i>	2.86	
<i>For >100 To 250, Add</i>	0.72	
<i>For >250 To 500, Add</i>	0.36	
<i>For >5,000 To 10,000, Deduct</i>	-0.07	
<i>For >10,000, Deduct</i>	-0.14	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.61	
<i>For Up To 100, Add</i>	3.22	
<i>For >100 To 250, Add</i>	0.81	
<i>For >250 To 500, Add</i>	0.40	
<i>For >5,000 To 10,000, Deduct</i>	-0.08	
<i>For >10,000, Deduct</i>	-0.16	
03 35 13 00-0007 SF Concrete Floor Finishes, Machine.....	1.43	
<i>For Up To 100, Add</i>	2.86	
<i>For >100 To 250, Add</i>	0.72	
<i>For >250 To 500, Add</i>	0.36	
<i>For >5,000 To 10,000, Deduct</i>	-0.07	
<i>For >10,000, Deduct</i>	-0.14	
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.26	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	2.02	
03 35 16 00-0004 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.18	
03 35 16 00-0005 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.49	
03 35 19 Colored Concrete Finishing (03 35)		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.47	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent.....	2.74	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof.....	0.33	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof.....	0.35	
03 35 23 Exposed Aggregate Concrete Finishing (03 35)		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish	3.04	
03 35 26 Grooved Concrete Surface Finishing (03 35)		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing	4.12	
03 35 29 Tooled Concrete Finishing (03 35)		
03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork.....	16.86	
03 35 29 00-0003 Marblecrete Finishes (03 35 29)		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish	51.44	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish	68.86	
03 35 33 Stamped Concrete Finishing (03 35)		
03 35 33 00-0001 Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish	3.69	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish.....	3.35	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish.....	3.20	
03 35 43 Polished Concrete Finishing (03 35)		
03 35 43 00-0001 Concrete Floor Polishing System (03 35 43)		
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		
03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels.....	1.75	
For Up To 500, Add	3.32	
For >500 To 1,000, Add	3.08	
For >1,000 To 2,500, Add	2.03	
For >2,500 To 4,000, Add	1.06	
For >8,000 To 15,000, Deduct	-0.41	
For >15,000 To 25,000, Deduct	-0.52	
For >25,000, Deduct	-0.74	
03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels.....	1.41	
For Up To 500, Add	2.66	
For >500 To 1,000, Add	2.47	
For >1,000 To 2,500, Add	1.63	
For >2,500 To 4,000, Add	0.85	
For >8,000 To 15,000, Deduct	-0.33	
For >15,000 To 25,000, Deduct	-0.42	
For >25,000, Deduct	-0.59	
03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.18	
For Up To 500, Add	2.21	
For >500 To 1,000, Add	2.05	
For >1,000 To 2,500, Add	1.36	
For >2,500 To 4,000, Add	0.71	
For >8,000 To 15,000, Deduct	-0.27	
For >15,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.49	
03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels.....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.25	
For Up To 500, Add	0.41	
For >500 To 1,000, Add	0.38	
For >1,000 To 2,500, Add	0.25	
For >2,500 To 4,000, Add	0.13	
For >8,000 To 15,000, Deduct	-0.05	
For >15,000 To 25,000, Deduct	-0.06	
For >25,000, Deduct	-0.09	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier	0.44	
For Up To 500, Add	0.50	
For >500 To 1,000, Add	0.47	
For >1,000 To 2,500, Add	0.31	
For >2,500 To 4,000, Add	0.16	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.08	
For >25,000, Deduct	-0.11	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector	0.75	
For Up To 500, Add	0.76	
For >500 To 1,000, Add	0.70	
For >1,000 To 2,500, Add	0.46	
For >2,500 To 4,000, Add	0.24	
For >8,000 To 15,000, Deduct	-0.09	
For >15,000 To 25,000, Deduct	-0.12	
For >25,000, Deduct	-0.17	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up.....	0.14	
For Up To 500, Add	0.27	
For >500 To 1,000, Add	0.25	
For >1,000 To 2,500, Add	0.17	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.03	
For >15,000 To 25,000, Deduct	-0.04	
For >25,000, Deduct	-0.06	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.28	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.09	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.16	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.09	
03 35 66 Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001 Acid Etch Floor (03 35 66)		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse	1.12	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	
03 35 83 Concrete Wall Finishing (03 35)		
03 35 83 00-0001 Wall Finishes (03 35 83)		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0002	SF		Burlap Rub With Grout, New Concrete Wall Finishes.....	1.68	
			For Up To 100, Add	3.10	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.39	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000, Deduct	-0.16	
03 35 83 00-0003	SF		1/16" Float Finish, New Concrete Wall Finishes.....	2.51	
			For Up To 100, Add	4.64	
			For >100 To 250, Add	1.16	
			For >250 To 500, Add	0.58	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000, Deduct	-0.23	
03 35 83 00-0004	SF		Etch With Acid And Rinse, New Concrete Wall Finishes.....	1.21	
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000, Deduct	-0.05	
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes.....	4.97	
			For Up To 100, Add	9.82	
			For >100 To 250, Add	2.46	
			For >250 To 500, Add	1.23	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000, Deduct	-0.49	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	7.72	
			For Up To 100, Add	15.18	
			For >100 To 250, Add	3.80	
			For >250 To 500, Add	1.90	
			For >5,000 To 10,000, Deduct	-0.38	
			For >10,000, Deduct	-0.76	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes.....	0.99	
			For Up To 100, Add	1.66	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.21	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000, Deduct	-0.08	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes.....	3.25	
			For Up To 100, Add	6.18	
			For >100 To 250, Add	1.55	
			For >250 To 500, Add	0.77	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000, Deduct	-0.31	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes.....	4.93	
			For Up To 100, Add	9.54	
			For >100 To 250, Add	2.39	
			For >250 To 500, Add	1.19	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000, Deduct	-0.48	
03 35 83 00-0010	SF		Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	4.75	
			Note: 4.5 Lbs of sand or abrasive material per SF		
			For Up To 100, Add	7.80	
			For >100 To 250, Add	1.95	
			For >250 To 500, Add	0.98	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000, Deduct	-0.39	
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	9.52	
			Note: 9 Lbs of sand abrasive material per SF		
			For Up To 100, Add	15.62	
			For >100 To 250, Add	3.91	
			For >250 To 500, Add	1.95	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000, Deduct	-0.78	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced.....	3.12	
			For Up To 25, Add	0.59	
			For >25 To 50, Add	0.34	
			For >50 To 150, Add	0.14	
03 37 13 00-0003	SF		2" Thick Shotcrete, Fiber Reinforced.....	5.88	
			For Up To 25, Add	1.08	
			For >25 To 50, Add	0.62	
			For >50 To 150, Add	0.25	
03 37 13 00-0004	SF		3" Thick Shotcrete, Fiber Reinforced.....	8.32	
			For Up To 25, Add	1.49	
			For >25 To 50, Add	0.86	
			For >50 To 150, Add	0.33	
03 37 13 00-0005	SF		4" Thick Shotcrete, Fiber Reinforced.....	10.51	
			For Up To 25, Add	1.85	
			For >25 To 50, Add	1.06	
			For >50 To 150, Add	0.40	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0006	SF		6" Thick Shotcrete, Fiber Reinforced	14.26	
			For Up To 25, Add	2.39	
			For >25 To 50, Add	1.36	
			For >50 To 150, Add	0.48	
03 37 13 00-0007			Gunite (Dry Mix Shotcrete), Sprayed <small>(03 37 13)</small>		
			See CSI section 03 22 11 00-0001 for wire mesh reinforcing.		
03 37 13 00-0008	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.39	
			For Radius Or Irregular Surface, Add	1.00	
			For Up To 25, Add	0.71	
			For >25 To 50, Add	0.42	
			For >50 To 150, Add	0.19	
03 37 13 00-0009	SF		2" Thick Gunite (Dry Mix Shotcrete), Sprayed	6.27	
			For Radius Or Irregular Surface, Add	1.80	
			For Up To 25, Add	1.30	
			For >25 To 50, Add	0.76	
			For >50 To 150, Add	0.34	
03 37 13 00-0010	SF		3" Thick Gunite (Dry Mix Shotcrete), Sprayed	8.73	
			For Radius Or Irregular Surface, Add	2.43	
			For Up To 25, Add	1.78	
			For >25 To 50, Add	1.04	
			For >50 To 150, Add	0.46	
03 37 13 00-0011	SF		4" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.83	
			For Radius Or Irregular Surface, Add	2.91	
			For Up To 25, Add	2.18	
			For >25 To 50, Add	1.27	
			For >50 To 150, Add	0.55	
03 37 13 00-0012	SF		5" Thick Gunite (Dry Mix Shotcrete), Sprayed	12.64	
			For Radius Or Irregular Surface, Add	3.28	
			For Up To 25, Add	2.49	
			For >25 To 50, Add	1.45	
			For >50 To 150, Add	0.62	
03 37 13 00-0013	SF		6" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.18	
			For Radius Or Irregular Surface, Add	3.54	
			For Up To 25, Add	2.75	
			For >25 To 50, Add	1.60	
			For >50 To 150, Add	0.66	
03 37 13 00-0014	SF		8" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.72	
			For Radius Or Irregular Surface, Add	4.25	
			For Up To 25, Add	3.37	
			For >25 To 50, Add	1.95	
			For >50 To 150, Add	0.80	
03 37 13 00-0015	SF		10" Thick Gunite (Dry Mix Shotcrete), Sprayed	20.83	
			For Radius Or Irregular Surface, Add	4.78	
			For Up To 25, Add	3.88	
			For >25 To 50, Add	2.24	
			For >50 To 150, Add	0.90	
03 37 13 00-0016	SF		12" Thick Gunite (Dry Mix Shotcrete), Sprayed	23.56	
			For Radius Or Irregular Surface, Add	5.16	
			For Up To 25, Add	4.29	
			For >25 To 50, Add	2.47	
			For >50 To 150, Add	0.97	

03 37 16 Pumped Concrete (03 37)

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

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

03 37 16 00-0002	HR		55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	170.16	
03 37 16 00-0003	HR		70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	181.52	
03 37 16 00-0004	HR		90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	222.54	
03 37 16 00-0005	HR		105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	248.08	
03 37 16 00-0006	HR		120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	274.43	
03 37 16 00-0007	HR		135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	330.25	
03 37 16 00-0008	HR		148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	363.55	
03 37 16 00-0009	HR		170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	444.21	
03 37 16 00-0010	HR		35 CY/HR, 66 HP Trailer Mounted Concrete Pump	122.57	
			Note: Includes hoses		

03 39 Concrete Curing (03 39)

03 39 13 Water Concrete Curing (03 39)

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

03 39 13 00-0002	SF		Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.31	
			Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		

03	03 Concrete
	03 30 Cast-In-Place Concrete
	03 39 Concrete Curing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 39 23 Membrane Concrete Curing (03 39)

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

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

03 39 23 23-0002	CSF	Warm Weather Concrete Curing Blankets	35.16
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03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004	CSF	Electric, Cold Weather Concrete Curing Blanket	248.74
03 39 23 23-0005	CSF	Non-Electric, Cold Weather Concrete Curing Blanket.....	32.23

03 50 Cast Decks and Underlayment (03)

03 51 Cast Roof Decks (03 50)

03 51 13 Cementitious Wood Fiber Decks (03 51)

03 51 13 00-0001 Cement Fiber Tongue And Groove Planks (03 51 13)

03 51 13 00-0002	SF	1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.42
03 51 13 00-0003	SF	1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.61
03 51 13 00-0004	SF	2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.82
03 51 13 00-0005	SF	2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.53
03 51 13 00-0006	SF	3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	6.29
03 51 13 00-0007	SF	3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	7.16
03 51 13 00-0008	SF	4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	8.23

03 51 16 Gypsum Concrete Roof Decks (03 51)

03 51 16 00-0001 Class A Gypsum Fill Concrete Deck (03 51 16)

03 51 16 00-0002	SF	2" Thick Precast Gypsum Fill Concrete Deck, Class A	10.41	0.51
03 51 16 00-0003	SF	2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	12.90	0.60
03 51 16 00-0004	SF	3" Thick Precast Gypsum Fill Concrete Deck, Class A	15.42	0.68
03 51 16 00-0005	SF	3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	17.95	0.77
03 51 16 00-0006	SF	4" Thick Precast Gypsum Fill Concrete Deck, Class A	20.50	0.85

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

03 51 16 00-0008	SF	Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck	1.99	
03 51 16 00-0009	SF	Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck	2.57	
03 51 16 00-0010	SF	Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck	5.02	
03 51 16 00-0011	SF	Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck	2.19	0.59
03 51 16 00-0012	SF	Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck	2.62	0.59
03 51 16 00-0013	SF	Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck	2.84	0.59
03 51 16 00-0014	SF	Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck	3.47	0.59

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

03 51 16 00-0016	SF	2" Thick, Insulating Concrete Gypsum Plank, Roof Deck	4.58
03 51 16 00-0017	SF	3" Thick, Insulating Concrete Gypsum Plank, Roof Deck	6.18

03 53 Concrete Topping (03 50)

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping (03 53)

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

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

03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.06
03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.48
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	5.80

03 53 19 Concrete Overlayment (03 53)

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

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.42
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.78
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.30
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.97
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.82
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.22
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.92

03 54 Cast Underlayment (03 50)

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001			Self Leveling Cementitious Underlayment For Floors <small>(03 54 16)</small>		
			Note: Includes primer.		
03 54 16 00-0002	SF		1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.00	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.13	
			For >100 To 250 SF, Add	0.07	
03 54 16 00-0003	SF		1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.56	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.13	
			For >100 To 250 SF, Add	0.07	
03 54 16 00-0004	SF		3/8" Thick Self Leveling Cementitious Underlayment For Floors	4.60	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.13	
			For >100 To 250 SF, Add	0.07	
03 54 16 00-0005	SF		1/2" Thick Self Leveling Cementitious Underlayment For Floors	6.68	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.13	
			For >100 To 250 SF, Add	0.07	
03 54 16 00-0006	SF		5/8" Thick Self Leveling Cementitious Underlayment For Floors	7.92	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.13	
			For >100 To 250 SF, Add	0.07	
03 54 16 00-0007	SF		3/4" Thick Self Leveling Cementitious Underlayment For Floors	9.84	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.15	
			For >100 To 250 SF, Add	0.08	
03 54 16 00-0008	SF		1" Thick Self Leveling Cementitious Underlayment For Floors	12.95	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.15	
			For >100 To 250 SF, Add	0.08	
03 54 16 00-0009	SF		1-1/4" Thick Self Leveling Cementitious Underlayment For Floors	17.14	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.17	
			For >100 To 250 SF, Add	0.09	
03 54 16 00-0010	SF		1-1/2" Thick Self Leveling Cementitious Underlayment For Floors	19.24	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.17	
			For >100 To 250 SF, Add	0.09	
03 54 16 00-0011	SF		1-3/4" Thick Self Leveling Cementitious Underlayment For Floors	25.57	
			Note: Including Surface Preparation		
			For Up To 100 SF, Add	0.21	
			For >100 To 250 SF, Add	0.11	

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

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

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001			Cementitious Flowable Grout <small>(03 61 16)</small>		
03 61 16 00-0002	CY		Cementitious Flowable Grout	505.27	

03 62 Non-Shrink Grouting (03 60)

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

03 62 13 00-0001			Fluid Type, Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>		
03 62 13 00-0002	SF		1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	27.07	
03 62 13 00-0003	SF		2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	41.63	
03 62 13 00-0004			Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>		
03 62 13 00-0005	SF		1" Deep, Non-Metallic Non-Shrink Grout For Bases	42.16	
03 62 13 00-0006	SF		2" Deep, Non-Metallic Non-Shrink Grout For Bases	69.53	
03 62 13 00-0007			Non-Metallic Non-Shrink Grouting For Joints <small>(03 62 13)</small>		
03 62 13 00-0008			1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>		
03 62 13 00-0009	LF		4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.08	
03 62 13 00-0010	LF		6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.76	
03 62 13 00-0011	LF		8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.65	
03 62 13 00-0012			1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>		
03 62 13 00-0013	LF		4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.16	
03 62 13 00-0014	LF		6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.28	
03 62 13 00-0015	LF		8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.67	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 62 16 Metallic Non-Shrink Grouting (03 62)

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases <small>(03 62 16)</small>		
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases.....		34.22
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases.....		54.13

03 62 16 00-0004	Metallic Non-Shrink Grouting For Joints <small>(03 62 16)</small>		
03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>		
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....		1.58
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....		2.01
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....		2.68

03 62 16 00-0009	1" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>		
03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....		2.19
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....		2.78
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....		3.71

03 64 Injection Grouting (03 60)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout <small>(03 64 23)</small>		
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....		1,100.27
	<i>For >4, Deduct</i>		-116.11

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout <small>(03 64 26)</small>		
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....		191.24
	<i>For >4, Deduct</i>		-48.68

END OF SECTION 03



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

05 05 Common Work Results for Metals (05)

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

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

05 05 19 00-0001 Concrete And Masonry Anchors (05 05 19)

05 05 19 00-0002 Expansion Anchors (05 05 19 00-0001)

Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors (05 05 19 00-0002)

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.23	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.17	
	For >100, Deduct	-2.34	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.34	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.17	
	For >100, Deduct	-2.35	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.72	
	For >10 To 50, Deduct	-0.59	
	For >50 To 100, Deduct	-1.21	
	For >100, Deduct	-2.42	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.01	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.09	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.11	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.42	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.44	
	For >100, Deduct	-2.88	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.72	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.04	
	For >100, Deduct	-4.08	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.78	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.04	
	For >100, Deduct	-4.09	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.91	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.05	
	For >100, Deduct	-4.09	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.26	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.06	
	For >100, Deduct	-4.11	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.73	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.07	
	For >100, Deduct	-4.13	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.17	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.55	
	For >100, Deduct	-5.11	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.27	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.56	
	For >100, Deduct	-5.11	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.49	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.56	
	For >100, Deduct	-5.12	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.91	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.57	
	For >100, Deduct	-5.14	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.33	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.58	
	For >100, Deduct	-5.17	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.67	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.33	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.54	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.48	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.98	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.10	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.07	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.11	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.58	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.13	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.20	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.08	
			<i>For >100, Deduct</i>	-6.16	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.90	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100, Deduct</i>	-6.20	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	38.58	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.33	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	42.14	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.25	
			<i>For >100, Deduct</i>	-6.51	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.15	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100, Deduct</i>	-6.71	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.09	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.52	
			<i>For >100, Deduct</i>	-7.03	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	47.20	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.57	
			<i>For >100, Deduct</i>	-7.14	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	50.00	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.64	
			<i>For >100, Deduct</i>	-7.28	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.94	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.49	
			<i>For >100, Deduct</i>	-8.98	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.92	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.59	
			<i>For >100, Deduct</i>	-9.18	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.86	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.69	
			<i>For >100, Deduct</i>	-9.37	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	72.81	
			<i>For >10 To 50, Deduct</i>	-2.64	
			<i>For >50 To 100, Deduct</i>	-5.78	
			<i>For >100, Deduct</i>	-11.55	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	75.66	
			<i>For >10 To 50, Deduct</i>	-2.64	
			<i>For >50 To 100, Deduct</i>	-5.85	
			<i>For >100, Deduct</i>	-11.70	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.28	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.40	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.69	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.24	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100, Deduct</i>	-2.49	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.96	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.96	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.31	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.97	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.55	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.98	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.43	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.08	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.08	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.30	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.73	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.11	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100, Deduct</i>	-4.35	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.83	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.22	
<i>For >100, Deduct</i>	-4.44	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.41	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100, Deduct</i>	-4.57	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.03	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.78	
<i>For >100, Deduct</i>	-5.55	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.71	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.82	
<i>For >100, Deduct</i>	-5.63	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.52	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100, Deduct</i>	-5.73	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.94	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.92	
<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.53	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-3.19	
<i>For >100, Deduct</i>	-6.38	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.20	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.31	
<i>For >100, Deduct</i>	-6.61	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.61	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.39	
<i>For >100, Deduct</i>	-6.78	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.52	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.46	
<i>For >100, Deduct</i>	-6.93	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.88	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.47	
<i>For >100, Deduct</i>	-6.95	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.62	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.54	
<i>For >100, Deduct</i>	-7.08	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.71	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.72	
<i>For >100, Deduct</i>	-7.44	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	70.73	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.97	
			<i>For >100, Deduct</i>	-7.94	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	71.36	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-4.17	
			<i>For >100, Deduct</i>	-8.34	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	103.19	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-5.67	
			<i>For >100, Deduct</i>	-11.34	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	118.00	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-6.04	
			<i>For >100, Deduct</i>	-12.08	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.63	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.41	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.40	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.50	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.09	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100, Deduct</i>	-3.01	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.68	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.04	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.82	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.67	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.59	
			<i>For >100, Deduct</i>	-3.19	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.80	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100, Deduct</i>	-4.44	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.45	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.26	
			<i>For >100, Deduct</i>	-4.52	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.44	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.33	
			<i>For >100, Deduct</i>	-4.67	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.19	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.35	
			<i>For >100, Deduct</i>	-4.71	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	46.21	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.00	
			<i>For >100, Deduct</i>	-6.01	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.11	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.04	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.63	
			<i>For >100, Deduct</i>	-7.25	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.78	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100, Deduct</i>	-7.44	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.03	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA		1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	26.36	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.16	
			<i>For >100, Deduct</i>	-4.32	
05 05 19 00-0086	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.69	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.38	
05 05 19 00-0087	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.36	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.21	
			<i>For >100, Deduct</i>	-4.42	
05 05 19 00-0088	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	34.24	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.71	
			<i>For >100, Deduct</i>	-5.41	
05 05 19 00-0089	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	32.64	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.33	
05 05 19 00-0090	EA		3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	44.26	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.31	
			<i>For >100, Deduct</i>	-6.62	
05 05 19 00-0091	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	45.72	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.69	
05 05 19 00-0092	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	52.92	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.52	
			<i>For >100, Deduct</i>	-7.05	
05 05 19 00-0093	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	56.55	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.50	
			<i>For >100, Deduct</i>	-9.01	
05 05 19 00-0094	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	60.69	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.61	
			<i>For >100, Deduct</i>	-9.22	
05 05 19 00-0095	EA		1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	64.79	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.71	
			<i>For >100, Deduct</i>	-9.42	
05 05 19 00-0096			Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097			Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0086)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0098	EA		1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.31	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0099	EA		1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.46	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0100	EA		1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.65	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.40	
05 05 19 00-0101	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.97	
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.51	
05 05 19 00-0102	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.11	
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100, Deduct</i>	-2.52	
05 05 19 00-0103	EA		3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.68	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.42	
			<i>For >100, Deduct</i>	-2.84	
05 05 19 00-0104	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.94	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.85	
05 05 19 00-0105	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.18	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.86	
05 05 19 00-0106	EA		1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.14	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.02	
			<i>For >100, Deduct</i>	-4.05	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.46	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.03	
			<i>For >100, Deduct</i>	-4.07	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.74	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.04	
			<i>For >100, Deduct</i>	-4.08	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.07	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.05	
			<i>For >100, Deduct</i>	-4.10	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.49	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.98	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.52	
			<i>For >100, Deduct</i>	-5.05	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.35	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.53	
			<i>For >100, Deduct</i>	-5.07	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	28.40	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.56	
			<i>For >100, Deduct</i>	-5.12	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.41	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.01	
			<i>For >100, Deduct</i>	-6.02	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.32	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.07	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	34.14	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.11	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	35.44	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.17	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	13.96	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	18.05	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-3.01	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	19.65	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.54	
			<i>For >100, Deduct</i>	-3.09	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	26.77	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.17	
			<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	29.64	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.47	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	40.25	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.86	
			<i>For >100, Deduct</i>	-5.71	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.05	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	13.31	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.88	
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	14.95	
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	15.83	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	16.63	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	17.24	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.97	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	23.11	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.07	
<i>For >100, Deduct</i>	-4.15	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	23.58	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100, Deduct</i>	-4.17	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	24.98	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.12	
<i>For >100, Deduct</i>	-4.24	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	26.78	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	30.68	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.62	
<i>For >100, Deduct</i>	-5.23	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	32.34	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.66	
<i>For >100, Deduct</i>	-5.31	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	33.81	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.39	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	39.36	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.18	
<i>For >100, Deduct</i>	-6.37	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	40.92	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.22	
<i>For >100, Deduct</i>	-6.45	
 05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	17.09	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.32	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	20.91	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.03	
<i>For >100, Deduct</i>	-4.05	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	25.48	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-2.41	
<i>For >100, Deduct</i>	-4.82	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	28.88	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-2.67	
<i>For >100, Deduct</i>	-5.34	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	34.56	
<i>For >10 To 50, Deduct</i>	-1.48	
<i>For >50 To 100, Deduct</i>	-3.08	
<i>For >100, Deduct</i>	-6.16	
 05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	20.47	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.49	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	27.26	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.18	
For >100, Deduct	-4.37	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	33.88	
For >10 To 50, Deduct	-1.18	
For >50 To 100, Deduct	-2.62	
For >100, Deduct	-5.24	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	42.41	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-3.01	
For >100, Deduct	-6.01	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	57.82	
For >10 To 50, Deduct	-1.48	
For >50 To 100, Deduct	-3.66	
For >100, Deduct	-7.32	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.53	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	13.39	
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.53	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.13	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	22.07	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.10	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	30.47	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.61	
For >100, Deduct	-5.22	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	36.75	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.24	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	12.71	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.41	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.11	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.83	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.45	
For >100, Deduct	-2.90	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	22.31	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.11	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	29.47	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.59	
For >100, Deduct	-5.17	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	33.15	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.03	
For >100, Deduct	-6.06	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA			1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	15.94	
				<i>For >10 To 50, Deduct</i>	-0.65	
				<i>For >50 To 100, Deduct</i>	-1.37	
				<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0172	EA			5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	18.47	
				<i>For >10 To 50, Deduct</i>	-0.71	
				<i>For >50 To 100, Deduct</i>	-1.52	
				<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0173	EA			3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	22.93	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.90	
				<i>For >100, Deduct</i>	-3.80	
05 05 19 00-0174	EA			1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	26.83	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.17	
				<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0175	EA			1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	28.40	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.21	
				<i>For >100, Deduct</i>	-4.41	
05 05 19 00-0176	EA			5/8" x 7" Long Chemically Adhered Anchor Rod.....	35.15	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-2.73	
				<i>For >100, Deduct</i>	-5.46	
05 05 19 00-0177	EA			3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	45.60	
				<i>For >10 To 50, Deduct</i>	-1.47	
				<i>For >50 To 100, Deduct</i>	-3.34	
				<i>For >100, Deduct</i>	-6.68	
05 05 19 00-0178	EA			7/8" x 10" Long Chemically Adhered Anchor Rod.....	53.98	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.73	
				<i>For >100, Deduct</i>	-7.46	
05 05 19 00-0179	EA			1" x 11-3/4" Long Chemically Adhered Anchor Rod	73.73	
				<i>For >10 To 50, Deduct</i>	-2.06	
				<i>For >50 To 100, Deduct</i>	-4.93	
				<i>For >100, Deduct</i>	-9.87	
05 05 19 00-0180	EA			1-1/4" x 14" Long Chemically Adhered Anchor Rod	105.67	
				<i>For >10 To 50, Deduct</i>	-2.60	
				<i>For >50 To 100, Deduct</i>	-6.54	
				<i>For >100, Deduct</i>	-13.08	
05 05 19 00-0181				Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
				Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
				Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA			1/4" Chemical Adhesive For Bolt Or Threaded Rod	13.35	
				<i>For >10 To 50, Deduct</i>	-0.65	
				<i>For >50 To 100, Deduct</i>	-1.31	
				<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0183	EA			5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	14.63	
				<i>For >10 To 50, Deduct</i>	-0.71	
				<i>For >50 To 100, Deduct</i>	-1.43	
				<i>For >100, Deduct</i>	-2.86	
05 05 19 00-0184	EA			3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.32	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.79	
				<i>For >100, Deduct</i>	-3.57	
05 05 19 00-0185	EA			1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.81	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.02	
				<i>For >100, Deduct</i>	-4.03	
05 05 19 00-0186	EA			5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	26.74	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-2.52	
				<i>For >100, Deduct</i>	-5.03	
05 05 19 00-0187	EA			3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	32.99	
				<i>For >10 To 50, Deduct</i>	-1.47	
				<i>For >50 To 100, Deduct</i>	-3.03	
				<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0188	EA			7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	36.63	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.30	
				<i>For >100, Deduct</i>	-6.60	
05 05 19 00-0189	EA			1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	48.51	
				<i>For >10 To 50, Deduct</i>	-2.06	
				<i>For >50 To 100, Deduct</i>	-4.30	
				<i>For >100, Deduct</i>	-8.61	
05 05 19 00-0190	EA			1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	55.56	
				<i>For >10 To 50, Deduct</i>	-2.33	
				<i>For >50 To 100, Deduct</i>	-4.88	
				<i>For >100, Deduct</i>	-9.77	
05 05 19 00-0191	EA			1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	63.63	
				<i>For >10 To 50, Deduct</i>	-2.60	
				<i>For >50 To 100, Deduct</i>	-5.49	
				<i>For >100, Deduct</i>	-10.97	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.91	
			<i>For >10 To 50, Deduct</i>	-2.72	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100, Deduct</i>	-11.59	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	76.13	
			<i>For >10 To 50, Deduct</i>	-2.83	
			<i>For >50 To 100, Deduct</i>	-6.15	
			<i>For >100, Deduct</i>	-12.31	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	90.59	
			<i>For >10 To 50, Deduct</i>	-3.07	
			<i>For >50 To 100, Deduct</i>	-6.87	
			<i>For >100, Deduct</i>	-13.74	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	122.15	
			<i>For >10 To 50, Deduct</i>	-3.19	
			<i>For >50 To 100, Deduct</i>	-7.84	
			<i>For >100, Deduct</i>	-15.67	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0199)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.37	
			<i>For >10 To 50, Deduct</i>	-0.21	
			<i>For >50 To 100, Deduct</i>	-0.42	
			<i>For >100, Deduct</i>	-0.84	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0198)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	12.10	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	12.18	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	12.35	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	12.19	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	12.29	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	12.49	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.40	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0199)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	12.89	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.28	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.38	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.57	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.45	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.73	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.07	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.48	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.48	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.86	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100, Deduct</i>	-2.51	
05 05 19 00-0215	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	15.94	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.57	
05 05 19 00-0216	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	16.06	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.57	
05 05 19 00-0217	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.72	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0218	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	17.39	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 19 00-0219	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	18.22	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0220	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	17.63	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.65	
05 05 19 00-0221	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	18.26	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0222	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	19.71	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	
05 05 19 00-0223			Pin Bolt Drives <small>(05 05 19 00-0198)</small>		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0224	EA		1/4" x 1" Pin Bolt Drive.....	7.53	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0225	EA		1/4" x 1-1/4" Pin Bolt Drive.....	7.53	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0226	EA		1/4" x 1-1/2" Pin Bolt Drive.....	7.59	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0227	EA		1/4" x 2" Pin Bolt Drive.....	7.60	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0228			Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0198)</small>		
05 05 19 00-0229	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.87	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100, Deduct</i>	-0.33	
05 05 19 00-0230	EA		0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.97	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100, Deduct</i>	-0.35	
05 05 19 00-0231	EA		0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	2.15	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100, Deduct</i>	-0.37	
05 05 19 00-0232	EA		0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.37	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100, Deduct</i>	-0.40	
05 05 19 00-0233	EA		0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.49	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100, Deduct</i>	-0.41	
05 05 19 00-0234			Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0198)</small>		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.20	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.18	
For >100, Deduct	-0.36	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.98	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.23	
For >100, Deduct	-0.45	
05 05 21 Fastening Methods for Metal (05 05)		
05 05 21 00-0001 Welding (05 05 21)		
05 05 21 00-0002 Minimum Charge For Welding (05 05 21 00-0001)		
05 05 21 00-0003 EA Welding Minimum Charge.....	454.45	
Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004 Spot Welding (05 05 21 00-0001)		
See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	11.70	
For Aluminum Welding, Add	1.82	
For Stainless Steel Welding, Add	3.00	
05 05 21 00-0006 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	9.12	
For Aluminum Welding, Add	1.43	
For Stainless Steel Welding, Add	2.36	
05 05 21 00-0007 Field Welding (Seam And Stitch Welding) (05 05 21 00-0001)		
05 05 21 00-0008 Vertical Fillet Welds (05 05 21 00-0007)		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009 LF 1/8" Vertical Fillet Weld.....	7.35	
For Aluminum Welding, Add	1.40	
For Stainless Steel Welding, Add	2.21	
For Up To 25, Add	2.45	
For >25 To 50, Add	1.74	
05 05 21 00-0010 LF 3/16" Vertical Fillet Weld.....	14.32	
For Aluminum Welding, Add	2.52	
For Stainless Steel Welding, Add	4.05	
For Up To 25, Add	4.86	
For >25 To 50, Add	3.46	
05 05 21 00-0011 LF 1/4" Vertical Fillet Weld.....	21.50	
For Aluminum Welding, Add	3.80	
For Stainless Steel Welding, Add	6.09	
For Up To 25, Add	7.29	
For >25 To 50, Add	5.19	
05 05 21 00-0012 LF 5/16" Vertical Fillet Weld.....	28.36	
For Aluminum Welding, Add	5.02	
For Stainless Steel Welding, Add	8.05	
For Up To 25, Add	9.61	
For >25 To 50, Add	6.83	
05 05 21 00-0013 LF 3/8" Vertical Fillet Weld.....	35.82	
For Aluminum Welding, Add	6.32	
For Stainless Steel Welding, Add	10.13	
For Up To 25, Add	12.14	
For >25 To 50, Add	8.64	
05 05 21 00-0014 LF 7/16" Vertical Fillet Weld.....	41.80	
For Aluminum Welding, Add	7.01	
For Stainless Steel Welding, Add	11.38	
For Up To 25, Add	14.32	
For >25 To 50, Add	10.20	
05 05 21 00-0015 LF 1/2" Vertical Fillet Weld.....	48.97	
For Aluminum Welding, Add	8.66	
For Stainless Steel Welding, Add	13.89	
For Up To 25, Add	16.59	
For >25 To 50, Add	11.80	
05 05 21 00-0016 LF 9/16" Vertical Fillet Weld.....	57.40	
For Aluminum Welding, Add	9.79	
For Stainless Steel Welding, Add	15.82	
For Up To 25, Add	19.60	
For >25 To 50, Add	13.96	
05 05 21 00-0017 LF 5/8" Vertical Fillet Weld.....	66.55	
For Aluminum Welding, Add	11.38	
For Stainless Steel Welding, Add	18.39	
For Up To 25, Add	22.71	
For >25 To 50, Add	16.17	
05 05 21 00-0018 LF 3/4" Vertical Fillet Weld.....	89.62	
For Aluminum Welding, Add	15.84	
For Stainless Steel Welding, Add	25.41	
For Up To 25, Add	30.37	
For >25 To 50, Add	21.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0019 LF 7/8" Vertical Fillet Weld.....	132.89	
<i>For Aluminum Welding, Add</i>	22.60	
<i>For Stainless Steel Welding, Add</i>	36.56	
<i>For Up To 25, Add</i>	45.40	
<i>For >25 To 50, Add</i>	32.33	
05 05 21 00-0020 LF 1" Vertical Fillet Weld.....	178.72	
<i>For Aluminum Welding, Add</i>	31.29	
<i>For Stainless Steel Welding, Add</i>	50.28	
<i>For Up To 25, Add</i>	60.68	
<i>For >25 To 50, Add</i>	43.19	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<i>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</i>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....	6.17	
<i>For Aluminum Welding, Add</i>	1.23	
<i>For Stainless Steel Welding, Add</i>	1.92	
<i>For Up To 25, Add</i>	2.03	
<i>For >25 To 50, Add</i>	1.44	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....	12.10	
<i>For Aluminum Welding, Add</i>	2.21	
<i>For Stainless Steel Welding, Add</i>	3.51	
<i>For Up To 25, Add</i>	4.07	
<i>For >25 To 50, Add</i>	2.90	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....	18.10	
<i>For Aluminum Welding, Add</i>	3.30	
<i>For Stainless Steel Welding, Add</i>	5.26	
<i>For Up To 25, Add</i>	6.09	
<i>For >25 To 50, Add</i>	4.33	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....	23.92	
<i>For Aluminum Welding, Add</i>	4.39	
<i>For Stainless Steel Welding, Add</i>	6.99	
<i>For Up To 25, Add</i>	8.04	
<i>For >25 To 50, Add</i>	5.71	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....	30.21	
<i>For Aluminum Welding, Add</i>	5.52	
<i>For Stainless Steel Welding, Add</i>	8.78	
<i>For Up To 25, Add</i>	10.16	
<i>For >25 To 50, Add</i>	7.22	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....	35.13	
<i>For Aluminum Welding, Add</i>	6.06	
<i>For Stainless Steel Welding, Add</i>	9.77	
<i>For Up To 25, Add</i>	11.97	
<i>For >25 To 50, Add</i>	8.52	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....	41.25	
<i>For Aluminum Welding, Add</i>	7.56	
<i>For Stainless Steel Welding, Add</i>	12.03	
<i>For Up To 25, Add</i>	13.87	
<i>For >25 To 50, Add</i>	9.85	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....	48.34	
<i>For Aluminum Welding, Add</i>	8.51	
<i>For Stainless Steel Welding, Add</i>	13.66	
<i>For Up To 25, Add</i>	16.39	
<i>For >25 To 50, Add</i>	11.67	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....	56.23	
<i>For Aluminum Welding, Add</i>	10.07	
<i>For Stainless Steel Welding, Add</i>	16.10	
<i>For Up To 25, Add</i>	19.00	
<i>For >25 To 50, Add</i>	13.51	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....	75.57	
<i>For Aluminum Welding, Add</i>	13.85	
<i>For Stainless Steel Welding, Add</i>	22.04	
<i>For Up To 25, Add</i>	25.40	
<i>For >25 To 50, Add</i>	18.05	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	111.19	
<i>For Aluminum Welding, Add</i>	19.17	
<i>For Stainless Steel Welding, Add</i>	30.92	
<i>For Up To 25, Add</i>	37.88	
<i>For >25 To 50, Add</i>	26.97	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	150.18	
<i>For Aluminum Welding, Add</i>	27.23	
<i>For Stainless Steel Welding, Add</i>	43.42	
<i>For Up To 25, Add</i>	50.61	
<i>For >25 To 50, Add</i>	35.98	

05 05 23 Metal Fastenings (05 05)

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

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	13.45	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.16	
For >100, Deduct	-2.31	
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	14.90	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.39	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	14.94	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.39	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	17.83	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.77	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.38	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.51	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	20.86	1.50
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.46	
For >100, Deduct	-2.92	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	26.53	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.64	
For >100, Deduct	-3.29	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	28.52	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.49	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	20.89	1.42
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.83	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	25.25	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.22	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	29.81	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.55	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	42.84	1.73
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-2.15	
For >100, Deduct	-4.31	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	50.20	1.96
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-2.48	
For >100, Deduct	-4.96	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	56.54	2.10
For >10 To 50, Deduct	-0.87	
For >50 To 100, Deduct	-2.72	
For >100, Deduct	-5.45	
05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0002)</small>		
05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	14.16	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	15.38	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.41	
05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	16.70	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.48	
05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	19.59	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.85	
05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	19.37	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	24.54	1.50
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.55	
For >100, Deduct	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0025 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	32.88	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100, Deduct</i>	-3.60	
05 05 23 00-0026 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	38.80	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-2.00	
<i>For >100, Deduct</i>	-4.00	
05 05 23 00-0027 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	26.11	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0028 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	31.13	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.76	
<i>For >100, Deduct</i>	-3.51	
05 05 23 00-0029 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	37.41	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.97	
<i>For >100, Deduct</i>	-3.93	
05 05 23 00-0030 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	56.60	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-2.50	
<i>For >100, Deduct</i>	-4.99	
05 05 23 00-0031 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	56.35	1.96
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-2.63	
<i>For >100, Deduct</i>	-5.26	
05 05 23 00-0032 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	70.80	2.10
<i>For >10 To 50, Deduct</i>	-0.87	
<i>For >50 To 100, Deduct</i>	-3.08	
<i>For >100, Deduct</i>	-6.16	
05 05 23 00-0033 A325 High Strength Structural Bolts <small>(05 05 23 00-0001)</small>		
05 05 23 00-0034 Plain Finish A325 High Strength Structural Bolts <small>(05 05 23 00-0033)</small>		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.12	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.15	
<i>For >100, Deduct</i>	-2.30	
05 05 23 00-0036 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	13.44	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.16	
<i>For >100, Deduct</i>	-2.31	
05 05 23 00-0037 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.46	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.36	
05 05 23 00-0038 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	17.86	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.77	
05 05 23 00-0039 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	20.86	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.00	
05 05 23 00-0040 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.88	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.44	
05 05 23 00-0041 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.38	1.50
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.84	
05 05 23 00-0042 EA 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.20	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100, Deduct</i>	-3.07	
05 05 23 00-0043 EA 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	27.61	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100, Deduct</i>	-3.44	
05 05 23 00-0044 EA 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	18.55	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.71	
05 05 23 00-0045 EA 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	22.76	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0046 EA 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	26.13	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100, Deduct</i>	-3.37	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	28.37	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.79	
			<i>For >100, Deduct</i>	-3.58	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	20.59	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.88	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	24.92	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.65	
			<i>For >100, Deduct</i>	-3.31	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	29.05	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100, Deduct</i>	-3.62	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	37.60	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.09	
			<i>For >100, Deduct</i>	-4.18	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	35.81	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.05	
			<i>For >100, Deduct</i>	-4.09	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	40.74	1.96
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.48	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	48.02	2.10
			<i>For >10 To 50, Deduct</i>	-0.87	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	56.63	2.24
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.81	
			<i>For >100, Deduct</i>	-5.63	
05 05 23 00-0056			Galvanized A325 High Strength Structural Bolts <small>(05 05 23 00-0033)</small>		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	13.76	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100, Deduct</i>	-2.33	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	13.98	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.34	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.81	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.43	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.82	1.50
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100, Deduct</i>	-2.82	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	19.94	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100, Deduct</i>	-2.96	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	16.50	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 23 00-0063	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	20.16	1.50
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.88	
05 05 23 00-0064	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	23.42	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.57	
			<i>For >100, Deduct</i>	-3.13	
05 05 23 00-0065	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	30.50	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.79	
			<i>For >100, Deduct</i>	-3.59	
05 05 23 00-0066	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	22.27	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0067	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	24.96	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.60	
			<i>For >100, Deduct</i>	-3.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	28.81	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.75	
<i>For >100, Deduct</i>	-3.50	
05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	36.38	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.99	
<i>For >100, Deduct</i>	-3.98	
05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	23.49	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.03	
05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	31.57	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.64	
05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	34.62	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	44.46	1.84
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.53	
05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	44.18	1.84
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.51	
05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	47.13	1.96
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-2.40	
<i>For >100, Deduct</i>	-4.80	
05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	55.35	2.10
<i>For >10 To 50, Deduct</i>	-0.87	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.39	
05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	64.28	2.24
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-3.00	
<i>For >100, Deduct</i>	-6.01	
05 05 23 00-0078 A490 High Strength Structural Bolts <small>(05 05 23 00-0001)</small>		
Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0078)</small>		
05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.97	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.19	
<i>For >100, Deduct</i>	-2.39	
05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.34	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	22.86	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.10	
05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.94	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.49	
05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	20.58	1.50
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	24.13	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.58	
<i>For >100, Deduct</i>	-3.17	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	31.37	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.63	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	19.76	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.77	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.14	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	33.98	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100, Deduct</i>	-3.76	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0090	EA		1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	23.43	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100, Deduct</i>	-3.02	
05 05 23 00-0091	EA		1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	28.11	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.73	
			<i>For >100, Deduct</i>	-3.47	
05 05 23 00-0092	EA		1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	32.48	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.89	
			<i>For >100, Deduct</i>	-3.79	
05 05 23 00-0093	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	40.87	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.17	
			<i>For >100, Deduct</i>	-4.35	
05 05 23 00-0094	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	52.82	1.96
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	
05 05 23 00-0095	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	55.55	2.10
			<i>For >10 To 50, Deduct</i>	-0.87	
			<i>For >50 To 100, Deduct</i>	-2.70	
			<i>For >100, Deduct</i>	-5.40	
05 05 23 00-0096	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	57.92	2.24
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100, Deduct</i>	-5.69	
05 05 23 00-0097			Hex Head Bolts <small>(05 05 23 00-0001)</small>		
05 05 23 00-0098			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0099			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0100	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.49	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0101	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.52	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0102	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.60	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0103	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.64	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0104	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0105	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0106	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0107	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0108	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.32	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0109	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0110	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0111	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.01	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0112 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0113 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0114 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.15	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0115 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.23	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0117 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.56	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0118 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.59	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0119 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0120 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.71	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0121 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0122 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.12	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0123 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0124 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.50	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0125 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0126 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.76	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0127 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.03	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0128 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.10	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0129 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0130 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0131 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0132 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.94	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0133			3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0098</small>		
05 05 23 00-0134	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.65	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0135	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.68	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0136	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0137	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0138	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0139	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0140	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.47	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0141	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.84	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0142	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0143	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0144	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.60	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0145	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.72	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0146	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0147	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0148	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.19	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0149	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0150			7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0098</small>		
05 05 23 00-0151	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0152	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.22	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0153	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0154	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.63	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.98	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.59	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.71	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.34	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.61	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.14	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.14	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.01	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0176	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.22	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0177	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0178	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0179	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0180	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0181	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0182	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0183	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0184	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.94	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0185	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.13	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0186			9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0187	EA		9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0188	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0189	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0190	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0191	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.61	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0192	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.71	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0193	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0194	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0195	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0196	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0197 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.60	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0198 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.81	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0199 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0200 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.50	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0201 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.76	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0202 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0203 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.48	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0204 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.68	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0205 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.98	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0207 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0208 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.81	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0209 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.00	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0210 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.46	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0211 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.74	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.27	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.68	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.07	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.12	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0218	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.83	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0219	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.44	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0220	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.00	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0221	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.65	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0222	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.56	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0223	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.20	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0224	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.86	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0225	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.36	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0226			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts ^{(05 05}		
			_{23 00-0098)}		
05 05 23 00-0227	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0228	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0229	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.71	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0230	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0231	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.66	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0232	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.02	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0233	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.63	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0234	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.14	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0235	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0236	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.57	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0237	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.91	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0238	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.53	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0239	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.78	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0240	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.25	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0241	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.93	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0242	EA			3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.03	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0243	EA			3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.71	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0244	EA			3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.62	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0245	EA			3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.49	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0246				7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0247	EA			7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.73	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0248	EA			7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.97	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0249	EA			7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.09	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0250	EA			7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.64	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0251	EA			7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.31	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0252	EA			7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.08	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0253	EA			7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.94	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0254	EA			7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.07	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0255	EA			7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.70	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0256	EA			7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.40	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0257	EA			7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.78	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0258	EA			7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.67	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0259	EA			7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.77	
				<i>For >100 To 250, Deduct</i>	-2.28	
				<i>For >250 To 500, Deduct</i>	-2.85	
				<i>For >500, Deduct</i>	-3.41	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0260	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.68	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0261	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.57	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0262	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.62	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0263	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.57	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0264	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.43	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0265	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.37	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0266			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0267	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0268	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.46	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0269	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.71	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0270	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.00	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0271	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.17	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0272	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.59	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0273	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.72	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0274	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.90	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0275	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.69	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0276	EA		1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.25	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0277	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.24	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0278	EA		1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.44	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0279	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.41	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0280	EA		1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.42	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0281 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.44	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0282 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.59	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0283 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.60	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0284 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.63	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
 05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0087)</small>		
05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0287 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.55	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0288 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.60	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0289 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.64	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0290 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.73	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0291 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.80	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0292 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.88	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0293 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.93	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0294 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.00	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0295 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.08	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0296 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.16	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.24	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.32	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.40	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.48	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.56	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	35.64	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0303	5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0304	EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.65	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0305	EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.69	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0306	EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.75	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0307	EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.87	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0308	EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.16	
	For >100 To 250, Deduct	-1.52	
	For >250 To 500, Deduct	-1.90	
	For >500, Deduct	-2.28	
05 05 23 00-0309	EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.31	
	For >100 To 250, Deduct	-1.52	
	For >250 To 500, Deduct	-1.90	
	For >500, Deduct	-2.28	
05 05 23 00-0310	EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.57	
	For >100 To 250, Deduct	-1.52	
	For >250 To 500, Deduct	-1.90	
	For >500, Deduct	-2.28	
05 05 23 00-0311	EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.91	
	For >100 To 250, Deduct	-1.56	
	For >250 To 500, Deduct	-1.95	
	For >500, Deduct	-2.34	
05 05 23 00-0312	EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.11	
	For >100 To 250, Deduct	-1.56	
	For >250 To 500, Deduct	-1.95	
	For >500, Deduct	-2.34	
05 05 23 00-0313	EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.31	
	For >100 To 250, Deduct	-1.56	
	For >250 To 500, Deduct	-1.95	
	For >500, Deduct	-2.34	
05 05 23 00-0314	EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.89	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0315	EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.96	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0316	EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.21	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0317	EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.75	
	For >100 To 250, Deduct	-1.64	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0318	EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.10	
	For >100 To 250, Deduct	-1.64	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0319	EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.43	
	For >100 To 250, Deduct	-1.64	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0320	3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0321	EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.71	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0322	EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.74	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	
05 05 23 00-0323	EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.85	
	For >100 To 250, Deduct	-1.48	
	For >250 To 500, Deduct	-1.85	
	For >500, Deduct	-2.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0324 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.98	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0325 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.32	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0326 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.47	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0327 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.69	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0328 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.15	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0329 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.68	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0330 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0331 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.45	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0332 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.67	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0333 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.07	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0334 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.58	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0335 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.11	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0336 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.54	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0338 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.00	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.80	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.00	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.19	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.64	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0345	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.69	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0346	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.15	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0347	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.52	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0348	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.73	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0349	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.96	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0350	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.48	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0351	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.78	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0352	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.09	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0353			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0354	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.14	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0355	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.29	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0356	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.44	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0357	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.91	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0358	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.15	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0359	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.40	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0360	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.84	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0361	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.66	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0362	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.71	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0363	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.49	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0364	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0365	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.64	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0366 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.60	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0367 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.06	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0368 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.24	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0369 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.29	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0370 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.10	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0371 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.25	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0372 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.69	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0374 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.59	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0375 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.86	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0376 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.10	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0377 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.57	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0378 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.90	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0379 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.28	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0380 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.91	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.35	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.73	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.36	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.76	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.94	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0387	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.49	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0388	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.41	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0389	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.47	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0390	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.81	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0391	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.14	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0392	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.96	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0393			5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0394	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.92	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0395	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.01	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0396	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.09	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0397	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.56	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0398	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.99	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0399	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.39	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0400	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.02	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0401	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.79	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0402	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.20	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0403	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.63	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0404	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.29	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0405	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.35	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0406	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.51	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0407	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.38	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0408 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.51	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0409 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.30	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0410 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0411 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.19	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0412 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.79	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0414 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.90	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0415 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.08	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0416 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.17	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0417 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.75	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0418 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.19	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0419 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.86	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0420 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.52	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0421 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.95	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0422 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.86	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0423 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.48	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0424 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.22	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0425 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.13	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0426 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.63	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0427 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.58	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0428 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.11	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0429	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.73	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0430	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.21	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0431	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.77	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0432	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.16	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0433			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.19	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0435	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.41	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0436	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.70	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0437	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.21	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0438	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.09	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0439	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.68	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0440	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.33	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0441	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.37	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0442	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.15	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0443	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.74	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.39	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.19	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.40	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.62	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.70	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.69	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0450 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.88	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0451 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.91	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0452 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.94	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0454 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.15	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0455 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.22	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0456 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.09	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0457 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.94	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0458 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.57	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0459 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.58	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0460 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.58	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0461 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.03	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0462 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.28	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0463 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.59	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0464 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.61	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.13	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.29	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.90	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	37.03	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	37.57	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	39.05	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0471	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	40.06	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0472			Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0473			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0474	EA		1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.57	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0475	EA		1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.68	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0476	EA		1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.73	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0477	EA		1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.84	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0478	EA		1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.12	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0479	EA		1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0480	EA		1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0481	EA		1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.57	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0482	EA		1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.91	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0483	EA		1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.23	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0484	EA		1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.60	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0485	EA		1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.77	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0486	EA		1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.98	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0487	EA		1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.34	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0488	EA		1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.75	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0489	EA		1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.94	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0490			5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0491	EA		5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.66	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0492	EA		5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.73	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0493	EA			5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.93		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0494	EA			5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 7.97		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0495	EA			5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.29		
				<i>For >100 To 250, Deduct</i>	-1.52	
				<i>For >250 To 500, Deduct</i>	-1.90	
				<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0496	EA			5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 8.58		
				<i>For >100 To 250, Deduct</i>	-1.52	
				<i>For >250 To 500, Deduct</i>	-1.90	
				<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0497	EA			5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.67		
				<i>For >100 To 250, Deduct</i>	-1.52	
				<i>For >250 To 500, Deduct</i>	-1.90	
				<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0498	EA			5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 9.05		
				<i>For >100 To 250, Deduct</i>	-1.56	
				<i>For >250 To 500, Deduct</i>	-1.95	
				<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0499	EA			5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 9.24		
				<i>For >100 To 250, Deduct</i>	-1.56	
				<i>For >250 To 500, Deduct</i>	-1.95	
				<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0500	EA			5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 9.67		
				<i>For >100 To 250, Deduct</i>	-1.56	
				<i>For >250 To 500, Deduct</i>	-1.95	
				<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0501	EA			5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 10.13		
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0502	EA			5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 10.29		
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0503	EA			5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 10.54		
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0504	EA			5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 10.92		
				<i>For >100 To 250, Deduct</i>	-1.64	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0505	EA			5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 11.11		
				<i>For >100 To 250, Deduct</i>	-1.64	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0506	EA			5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 11.47		
				<i>For >100 To 250, Deduct</i>	-1.64	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0507				3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0508	EA			3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 7.88		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0509	EA			3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 7.90		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0510	EA			3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.91		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0511	EA			3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 8.15		
				<i>For >100 To 250, Deduct</i>	-1.48	
				<i>For >250 To 500, Deduct</i>	-1.85	
				<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0512	EA			3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.49		
				<i>For >100 To 250, Deduct</i>	-1.52	
				<i>For >250 To 500, Deduct</i>	-1.90	
				<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0513	EA			3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... 8.73		
				<i>For >100 To 250, Deduct</i>	-1.52	
				<i>For >250 To 500, Deduct</i>	-1.90	
				<i>For >500, Deduct</i>	-2.28	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0514	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.94	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0515	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.81	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0516	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.08	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0517	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.13	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0518	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.45	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0519	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.74	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0520	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.05	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0521	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.56	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0522	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.15	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0523	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.52	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0524			7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0525	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.15	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0526	EA		7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.19	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0527	EA		7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.56	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0528	EA		7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.21	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.44	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.69	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.33	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.03	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0535	EA			7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.28	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.27	
				<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0536	EA			7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.65	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.27	
				<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0537	EA			7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.42	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0538	EA			7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.64	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0539	EA			7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.73	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0540				1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0541	EA			1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.39	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.11	
				<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0542	EA			1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.66	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.11	
				<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0543	EA			1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.83	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.11	
				<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0544	EA			1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.21	
				<i>For >100 To 250, Deduct</i>	-1.73	
				<i>For >250 To 500, Deduct</i>	-2.16	
				<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0545	EA			1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.51	
				<i>For >100 To 250, Deduct</i>	-1.73	
				<i>For >250 To 500, Deduct</i>	-2.16	
				<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0546	EA			1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.17	
				<i>For >100 To 250, Deduct</i>	-1.73	
				<i>For >250 To 500, Deduct</i>	-2.16	
				<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0547	EA			1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.85	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.21	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0548	EA			1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.23	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.21	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0549	EA			1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.51	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.21	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0550	EA			1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.21	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.27	
				<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0551	EA			1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.05	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.27	
				<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0552	EA			1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.83	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.27	
				<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0553	EA			1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.70	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0554	EA			1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.05	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0555	EA			1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.01	
				<i>For >100 To 250, Deduct</i>	-1.86	
				<i>For >250 To 500, Deduct</i>	-2.32	
				<i>For >500, Deduct</i>	-2.78	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0556	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.81	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0557	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.50	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0558	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.86	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0559	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.58	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0560			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0561	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.64	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0562	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0563	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.18	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0564	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.93	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0565	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0566	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0567	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.18	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0568	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.97	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0569	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.31	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0570	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.81	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.59	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.50	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.14	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.36	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.96	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0576			5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0577 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.27	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0578 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.43	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0579 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0580 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.65	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0581 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.14	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0582 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.41	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0583 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.80	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0584 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.68	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0585 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.07	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0586 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.69	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0587 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.11	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0588 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.97	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0589 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.23	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0590 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.22	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0591 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.63	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.59	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.52	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.67	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.18	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0598	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.36	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0599	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.48	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0600	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.94	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0601	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.30	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0602	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.35	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0603	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.00	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0604	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.10	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0605	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.52	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0606	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.25	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0607	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.00	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0608	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.40	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0609	EA		3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.31	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0610	EA		3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.06	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0611	EA		3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.44	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0612	EA		3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.49	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0613	EA		3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.85	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0614	EA		3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0615	EA		3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.18	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0616			7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0617	EA		7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.77	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0618	EA		7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.23	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0619 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.13	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0620 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.52	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0621 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.68	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0622 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.18	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0623 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.52	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0624 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.38	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0625 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.57	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0626 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.83	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0627 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.06	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0628 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.35	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0629 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	34.68	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0630 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.03	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0631 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.32	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0632 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.70	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0633 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.04	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0634 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	38.84	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0636 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.09	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0637 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.24	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0638 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.97	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0639 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.84	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0640	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.46	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0641	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.10	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0642	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.50	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0643	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.36	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0644	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.45	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0645	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.24	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0646	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.14	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0647	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.95	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0648	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.36	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0649	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.12	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0650	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.68	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0651	EA		1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	40.96	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0652	EA		1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	44.31	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0653	EA		1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	46.37	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0654			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0655			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0656	EA		1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.71	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0657	EA		1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.73	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0658	EA		1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0659	EA		1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0660	EA		1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.32	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.51	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.74	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.95	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.82	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.22	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0682	EA		5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.77	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0683	EA		5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.08	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0684	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0685	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.54	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0686	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.42	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0687	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0688	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.44	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts					
<small>(05 05 23 00-0654)</small>					
05 05 23 00-0690	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0691	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0692	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0693	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0694	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0695	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0696	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0697	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0698	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.53	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0699	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0700	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.14	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0701	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0702	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.59	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0703 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0704 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.87	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0705 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.32	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0654)</small>		
05 05 23 00-0707 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0708 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0709 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0710 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0711 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0712 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0713 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.83	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0714 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0715 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.51	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0716 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0717 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.47	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0654)</small>		
05 05 23 00-0719 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0720 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0721 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0722 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0723 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0724	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0725	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.35	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0726	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0727	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0728	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.29	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0729	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.71	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0730	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.75	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0731	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.04	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0732	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.14	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0733	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.46	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0734	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.16	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0735	EA		1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.41	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0736	EA		1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.46	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0737	EA		1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.61	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0738			5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0739	EA		5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.91	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0740	EA		5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.16	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0741	EA		5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0742	EA		5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.82	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0743	EA		5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0744	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.02	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.51	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.76	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.31	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.60	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.45	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.72	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.21	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.65	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.48	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.19	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.80	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.92	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.12	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.48	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.38	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.29	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0766	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.96	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0767	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.12	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0768	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.44	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0769	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.42	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0770	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.84	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0771	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.85	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0772	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.98	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0773	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.38	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0774	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.19	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0775	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.62	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0776	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.86	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0777	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.98	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0778			7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0779	EA		7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0780	EA		7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.06	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0781	EA		7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.55	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0782	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.04	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0783	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.41	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0784	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.10	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0785	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.62	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0786	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.29	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.96	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.48	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.60	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.38	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.34	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.57	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.04	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.58	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.24	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.87	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0854)</small>		
05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.92	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.29	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.18	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.89	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.71	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.07	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.11	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.43	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.81	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.34	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0808	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.22	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0809	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	30.70	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0810	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.16	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0811	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.81	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0812	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.00	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0813	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.91	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0814	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	36.24	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0815			304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0816			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0817	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.64	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0818	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.74	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0819	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0820	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.00	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0821	EA		1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.34	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0822	EA		1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.54	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0823	EA		1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.78	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0824	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0825	EA		1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.46	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0826	EA		1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.73	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0827	EA		1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.16	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0828	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.60	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0829	EA		1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.91	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.72	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.97	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.56	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.82	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.91	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.10	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.26	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.74	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.84	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.34	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.89	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.45	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.73	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.78	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.17	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.33	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.66	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.06	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.17	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0851	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.47	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0852	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.85	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0853	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.25	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0854	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.56	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0855	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.96	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0856	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.53	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0857	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.00	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0858	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.04	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0859	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.38	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0860	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.24	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0861	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.07	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0862	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.71	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0863	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.97	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0864	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.80	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0865			7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0866	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.08	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0867	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.20	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0868	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.69	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0869	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.19	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0870	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.77	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0871	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.74	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0872 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.40	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0873 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.54	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0874 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.03	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0875 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.81	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0876 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.54	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0877 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.78	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0878 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.19	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0879 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>	10.07	
05 05 23 00-0880 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.07	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0881 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.20	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0882 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.97	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0883 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.48	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0884 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.18	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0885 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.55	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0886 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.22	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0887 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.55	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0888 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.37	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0889 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0890 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.90	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0891 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.83	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0892 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.42	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0893	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.97	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0894	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.84	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0895	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.32	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0896	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.66	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0897	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.07	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0898	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.47	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0899			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0900	EA		9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.06	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0901	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.64	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0902	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.41	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0903	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.18	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0904	EA		9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.16	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0905	EA		9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.88	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0906	EA		9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.62	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0907	EA		9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.00	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0908	EA		9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.64	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0909	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.56	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0910	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.50	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0911			5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0912	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.46	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0913	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.82	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0914 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.33	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0915 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.79	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0916 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.51	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0917 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.54	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0918 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.04	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0919 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0920 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.20	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0921 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.07	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0922 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.11	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0923 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.91	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0924 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.19	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0925 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.91	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0926 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.69	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0927 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.08	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0928 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.09	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0929 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.61	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0930 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0932 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.11	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0933 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.82	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0934 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.75	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0935	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.97	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0936	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.00	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0937	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.73	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0938	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.97	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0939	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.57	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0940	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.86	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0941	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.40	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0942	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.90	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0943	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.72	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0944	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.40	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0945	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.79	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0946	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.89	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0947	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.33	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0948	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.14	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0949	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.31	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0950	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.99	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0951			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0952	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.60	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0953	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.36	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0954	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.92	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0955	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.71	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0956 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.30	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0957 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	26.98	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0958 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.54	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0959 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.44	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0960 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	32.23	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0961 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	33.73	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0962 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.98	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0963 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	45.35	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0964 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	49.05	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0965 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	52.04	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0966 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	61.30	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0967 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	68.55	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0968 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	71.91	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0969 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	75.25	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0970 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0971 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.87	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0972 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.16	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.29	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.91	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.58	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	34.78	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0977	EA		1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.64	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0978	EA		1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.39	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0979	EA		1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.17	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0980	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.33	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0981	EA		1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.69	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0982	EA		1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.22	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0983	EA		1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.60	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0984	EA		1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.99	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0985	EA		1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	64.97	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0986	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.23	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0987	EA		1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	88.55	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0988	EA		1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	111.05	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0989			316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0997)</small>		
05 05 23 00-0990			1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-0991	EA		1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.83	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0992	EA		1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.03	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0993	EA		1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.18	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0994	EA		2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.28	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0995	EA		2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.78	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0996	EA		3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.05	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0997	EA		3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.31	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0998	EA		4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.73	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0999 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.95	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1000 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.05	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1001 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.94	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1002 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.12	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1003 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	17.88	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1004 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	26.29	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1005 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	44.34	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1006 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	48.46	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
05 05 23 00-1008 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.11	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1009 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.34	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1010 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.72	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1011 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.02	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1012 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.35	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1013 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	9.95	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1014 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.36	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1015 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	10.75	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.64	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	11.82	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.66	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	13.35	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1020	EA		5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.10	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1021	EA		5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	27.49	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1022			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.72	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1024	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.81	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1025	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.17	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1026	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.03	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1027	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.54	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1028	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	10.70	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1029	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.44	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1030	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	11.77	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1031	EA		3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.24	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1032	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	12.56	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1033	EA		3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.81	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1034	EA		3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	15.07	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1035	EA		3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.12	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1036	EA		3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	18.54	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1037	EA		3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.75	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1038	EA		3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	29.38	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1039			7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1040	EA		7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	11.20	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1041	EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.74	-1.69 -2.11 -2.53	
05 05 23 00-1042	EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.76	-1.69 -2.11 -2.53	
05 05 23 00-1043	EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.84	-1.73 -2.16 -2.59	
05 05 23 00-1044	EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.81	-1.73 -2.16 -2.59	
05 05 23 00-1045	EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.40	-1.73 -2.16 -2.59	
05 05 23 00-1046	EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.14	-1.77 -2.21 -2.66	
05 05 23 00-1047	EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.42	-1.77 -2.21 -2.66	
05 05 23 00-1048	EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.00	-1.77 -2.21 -2.66	
05 05 23 00-1049	EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.61	-1.81 -2.27 -2.72	
05 05 23 00-1050	EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.02	-1.81 -2.27 -2.72	
05 05 23 00-1051	EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.44	-1.81 -2.27 -2.72	
05 05 23 00-1052	EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.98	-1.86 -2.32 -2.78	
05 05 23 00-1053	1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)			
05 05 23 00-1054	EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.18	-1.69 -2.11 -2.53	
05 05 23 00-1055	EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.76	-1.69 -2.11 -2.53	
05 05 23 00-1056	EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.58	-1.69 -2.11 -2.53	
05 05 23 00-1057	EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.76	-1.73 -2.16 -2.59	
05 05 23 00-1058	EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.66	-1.73 -2.16 -2.59	
05 05 23 00-1059	EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.88	-1.73 -2.16 -2.59	
05 05 23 00-1060	EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.46	-1.77 -2.21 -2.66	
05 05 23 00-1061	EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.20	-1.77 -2.21 -2.66	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1062	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	20.72	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1063	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.20	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1064	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	21.76	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1065	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.11	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1066	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	29.23	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1067	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.12	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1068	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	34.24	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1069	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.69	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1070	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	48.01	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1071	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.89	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1072	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	50.25	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1073			9/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1074	EA		9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	25.76	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1075	EA		9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.68	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1076	EA		9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	34.08	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1077	EA		9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.88	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1078	EA		9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	41.67	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1079	EA		9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.45	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1080	EA		9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	48.02	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1081	EA		9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.14	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1082	EA		9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	53.91	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1083 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.97	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1084 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	57.41	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1086 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1087 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.36	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1088 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	15.41	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1089 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.72	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1090 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.84	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1091 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.41	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1092 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	22.37	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1093 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.49	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1094 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	26.57	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1095 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.83	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1096 EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	29.72	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1097 EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.18	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1098 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	37.36	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1099 EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.05	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1100 EA 5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	40.60	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1101 EA 5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.12	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1102 EA 5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	45.28	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1103 EA 5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.59	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1104	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	66.62	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1105			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1106	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	19.53	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1107	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.92	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1108	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	21.40	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1109	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.92	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1110	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	25.69	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1111	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.30	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1112	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	30.93	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1113	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.35	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1114	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	33.13	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1115	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.38	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1116	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	36.15	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1117	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.61	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1118	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	49.73	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1119	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.88	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1120	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	56.81	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1121	EA		3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.72	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1122	EA		3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	70.06	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1123	EA		3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	70.85	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1124	EA		3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	72.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1126 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.00	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1127 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	24.56	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1128 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.18	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1129 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	29.77	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1130 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.38	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1131 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	33.01	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1132 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.18	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1133 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	40.08	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1134 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.41	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1135 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	42.04	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1136 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.74	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1137 EA 7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	61.99	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1138 EA 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	68.49	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1139 EA 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	71.70	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1140 EA 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	76.07	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1141 EA 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	78.85	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1142 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	81.61	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1143 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	84.72	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1145 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.64	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1146 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.81	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1147	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	34.46	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-1148	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.69	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-1149	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	40.41	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1150	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.28	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1151	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	46.18	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1152	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.30	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1153	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	56.79	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1154	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	64.17	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1155	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	74.47	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1156	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	82.96	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1157	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	84.18	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1158	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	87.16	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1159	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	88.32	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1160	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	102.41	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1161	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	116.01	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1162			Screws <small>(05 05 23)</small>		
05 05 23 00-1163			Teks® 5 Self Drilling Screws <small>(05 05 23 00-1162)</small>		
			Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1164	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.93	
			<i>For >10 To 50, Deduct</i>	-0.18	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1165	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.08	
			<i>For >10 To 50, Deduct</i>	-0.18	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100, Deduct</i>	-0.73	
05 05 23 00-1166	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.53	
			<i>For >10 To 50, Deduct</i>	-0.19	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100, Deduct</i>	-0.79	
05 05 23 00-1167	EA		1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	6.17	
			<i>For >10 To 50, Deduct</i>	-0.23	
			<i>For >50 To 100, Deduct</i>	-0.51	
			<i>For >100, Deduct</i>	-1.01	
05 05 23 00-1168	EA		1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	6.59	
			<i>For >10 To 50, Deduct</i>	-0.25	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100, Deduct</i>	-1.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1169 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.02	
<i>For >10 To 50, Deduct</i>	-0.26	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.17	
05 05 23 00-1170 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.91	
<i>For >10 To 50, Deduct</i>	-0.27	
<i>For >50 To 100, Deduct</i>	-0.63	
<i>For >100, Deduct</i>	-1.25	
05 05 23 00-1171 Security Screws <small>(05 05 23 00-1162)</small>		
05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1171)</small>		
<small>Note: Includes "security" style drive in machine or sheet metal screw threads.</small>		
05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	3.10	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.50	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.84	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.96	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.18	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.59	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.75	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.09	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.19	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.69	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.73	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.88	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.34	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.96	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.06	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.50	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.67	
05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.20	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	

05 05 23 00-1190

Threaded Rod (05 05 23)

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			washers.		
05 05 23 00-1191			Plain Finish Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1192	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.19	0.52
			<i>For Left Hand Threaded Rod, Add</i>	0.11	
05 05 23 00-1193	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.87	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.17	
05 05 23 00-1194	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.33	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1195	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.50	0.68
			<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1196	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.61	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1197	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.70	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.43	
05 05 23 00-1198	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.43	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.50	
05 05 23 00-1199	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.54	0.75
			<i>For Left Hand Threaded Rod, Add</i>	0.91	
05 05 23 00-1200	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.49	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.00	
05 05 23 00-1201	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.72	0.87
			<i>For Left Hand Threaded Rod, Add</i>	1.40	
05 05 23 00-1202	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	19.58	0.97
			<i>For Left Hand Threaded Rod, Add</i>	1.76	
05 05 23 00-1203	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.97	1.05
			<i>For Left Hand Threaded Rod, Add</i>	2.38	
05 05 23 00-1204	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	32.30	1.14
			<i>For Left Hand Threaded Rod, Add</i>	3.00	
05 05 23 00-1205	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	38.65	1.19
			<i>For Left Hand Threaded Rod, Add</i>	3.63	
05 05 23 00-1206	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	47.39	1.24
			<i>For Left Hand Threaded Rod, Add</i>	4.49	
05 05 23 00-1207	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	60.54	1.31
			<i>For Left Hand Threaded Rod, Add</i>	5.79	
05 05 23 00-1208			Zinc Plated Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1209	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.20	0.52
			<i>For Left Hand Threaded Rod, Add</i>	0.12	
05 05 23 00-1210	LF		5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.25	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.21	
05 05 23 00-1211	LF		3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.62	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.23	
05 05 23 00-1212	LF		7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.21	0.68
			<i>For Left Hand Threaded Rod, Add</i>	0.39	
05 05 23 00-1213	LF		1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.61	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.42	
05 05 23 00-1214	LF		9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.33	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.59	
05 05 23 00-1215	LF		5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.79	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.64	
05 05 23 00-1216	LF		3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	11.71	0.75
			<i>For Left Hand Threaded Rod, Add</i>	1.02	
05 05 23 00-1217	LF		7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	15.17	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.36	
05 05 23 00-1218	LF		1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	20.36	0.87
			<i>For Left Hand Threaded Rod, Add</i>	1.86	
05 05 23 00-1219	LF		1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	26.29	0.97
			<i>For Left Hand Threaded Rod, Add</i>	2.44	
05 05 23 00-1220	LF		1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	31.36	1.05
			<i>For Left Hand Threaded Rod, Add</i>	2.92	
05 05 23 00-1221	LF		1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	35.65	1.14
			<i>For Left Hand Threaded Rod, Add</i>	3.34	
05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	44.90	1.19
			<i>For Left Hand Threaded Rod, Add</i>	4.25	
05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	55.63	1.24
			<i>For Left Hand Threaded Rod, Add</i>	5.31	
05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	81.16	1.31
			<i>For Left Hand Threaded Rod, Add</i>	7.86	
05 05 23 00-1225			Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.96	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.47	
05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	8.33	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.69	
05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	11.24	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.98	
05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	15.43	0.75
			<i>For Left Hand Threaded Rod, Add</i>	1.40	
05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	21.36	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1231 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	27.57 2.58	0.87
05 05 23 00-1232 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	36.27 3.43	0.97
05 05 23 00-1233 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	47.70 4.55	1.05
05 05 23 00-1234 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	53.30 5.10	1.14
05 05 23 00-1235 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	63.46 6.11	1.19
05 05 23 00-1236 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	77.09 7.46	1.24
05 05 23 00-1237 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	134.56 13.20	1.31
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1239 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	3.14 0.21	0.52
05 05 23 00-1240 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	4.73 0.36	0.57
05 05 23 00-1241 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	6.09 0.48	0.66
05 05 23 00-1242 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	8.46 0.71	0.68
05 05 23 00-1243 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	10.15 0.88	0.70
05 05 23 00-1244 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	14.59 1.32	0.71
05 05 23 00-1245 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.23 1.38	0.73
05 05 23 00-1246 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	21.34 1.99	0.75
05 05 23 00-1247 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	29.35 2.78	0.77
05 05 23 00-1248 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	37.66 3.59	0.87
05 05 23 00-1249 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	79.74 7.76	1.05
05 05 23 00-1250 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	121.42 11.90	1.19
05 05 23 00-1251 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	124.89 12.24	1.24
05 05 23 00-1252 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	172.82 17.02	1.31
05 05 23 00-1253 316 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1254 LF 1/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	4.55 0.35	0.52
05 05 23 00-1255 LF 5/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	7.34 0.62	0.57
05 05 23 00-1256 LF 3/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	9.75 0.84	0.66
05 05 23 00-1257 LF 7/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.22 1.39	0.68
05 05 23 00-1258 LF 1/2" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	16.14 1.48	0.70
05 05 23 00-1259 LF 9/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	21.17 1.98	0.71
05 05 23 00-1260 LF 5/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	22.79 2.14	0.73
05 05 23 00-1261 LF 3/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	33.23 3.18	0.75
05 05 23 00-1262 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	45.49 4.40	0.77
05 05 23 00-1263 LF 1" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	57.58 5.58	0.87
05 05 23 00-1264 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	121.58 11.94	1.05
05 05 23 00-1265 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	159.36 15.70	1.19
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1267 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	3.79 1.37	0.52
05 05 23 00-1268 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	5.85 2.35	0.57
05 05 23 00-1269 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.12 2.41	0.66
05 05 23 00-1270 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.68 2.67	0.68

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1271	LF		1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	7.36	0.70
			<i>For Zinc Plating, Add</i>	2.99	
05 05 23 00-1272	LF		9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	9.20	0.71
			<i>For Zinc Plating, Add</i>	3.90	
05 05 23 00-1273	LF		5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	9.50	0.73
			<i>For Zinc Plating, Add</i>	4.03	
05 05 23 00-1274	LF		3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	12.62	0.75
			<i>For Zinc Plating, Add</i>	5.57	
05 05 23 00-1275	LF		7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	15.13	0.77
			<i>For Zinc Plating, Add</i>	6.80	
05 05 23 00-1276	LF		1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	19.64	0.87
			<i>For Zinc Plating, Add</i>	8.95	
05 05 23 00-1277	LF		1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	25.57	0.97
			<i>For Zinc Plating, Add</i>	11.82	
05 05 23 00-1278	LF		1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	28.46	1.05
			<i>For Zinc Plating, Add</i>	13.14	
05 05 23 00-1279	LF		1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	32.85	1.14
			<i>For Zinc Plating, Add</i>	15.29	
05 05 23 00-1280	LF		1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	39.96	1.19
			<i>For Zinc Plating, Add</i>	18.79	
05 05 23 00-1281	LF		1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	41.31	1.24
			<i>For Zinc Plating, Add</i>	19.41	
05 05 23 00-1282	LF		2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	55.46	1.31
			<i>For Zinc Plating, Add</i>	26.43	
05 05 23 00-1283			Nuts And Washers <small>(05 05 23)</small>		
05 05 23 00-1284			Hex Nuts <small>(05 05 23 00-1283)</small>		
05 05 23 00-1285			Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1286	EA		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.65	0.29
05 05 23 00-1287	EA		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.72	0.29
05 05 23 00-1288	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.29
05 05 23 00-1289	EA		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.90	0.29
05 05 23 00-1290	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.99	0.29
05 05 23 00-1291	EA		9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.30	0.29
05 05 23 00-1292	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.35	0.29
05 05 23 00-1293	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.59	0.58
05 05 23 00-1294	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.34	0.58
05 05 23 00-1295	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.97	0.58
05 05 23 00-1296	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.85	0.58
05 05 23 00-1297	EA		1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.92	0.58
05 05 23 00-1298	EA		1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.72	0.58
05 05 23 00-1299	EA		1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	10.10	0.88
05 05 23 00-1300	EA		1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	14.83	0.88
05 05 23 00-1301	EA		2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	21.42	0.88
05 05 23 00-1302			Zinc Plated Steel, Grade 5 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1303	EA		1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.67	0.29
05 05 23 00-1304	EA		5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.73	0.29
05 05 23 00-1305	EA		3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.80	0.29
05 05 23 00-1306	EA		7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.94	0.29
05 05 23 00-1307	EA		1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.10	0.29
05 05 23 00-1308	EA		9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.34	0.29
05 05 23 00-1309	EA		5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.37	0.29
05 05 23 00-1310	EA		3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.80	0.58
05 05 23 00-1311	EA		7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.55	0.58
05 05 23 00-1312	EA		1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.59	0.58
05 05 23 00-1313	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	5.47	0.58
05 05 23 00-1314	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	7.74	0.58
05 05 23 00-1315	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	11.36	0.58
05 05 23 00-1316	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	12.55	0.88
05 05 23 00-1317	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	22.65	0.88
05 05 23 00-1318	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	32.46	0.88
05 05 23 00-1319			Zinc Plated Steel, Grade 8 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1320	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.68	0.29
05 05 23 00-1321	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.79	0.29
05 05 23 00-1322	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.86	0.29
05 05 23 00-1323	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.07	0.29
05 05 23 00-1324	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.29	0.29
05 05 23 00-1325	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.55	0.29
05 05 23 00-1326	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.76	0.29
05 05 23 00-1327	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.18	0.58
05 05 23 00-1328	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.28	0.58
05 05 23 00-1329	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.36	0.58
05 05 23 00-1330	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	6.83	0.58
05 05 23 00-1331	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.52	0.58
05 05 23 00-1332	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.03	0.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.89	0.88
05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	22.72	0.88
05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	32.10	0.88
05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.68	0.29
05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.29
05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.83	0.29
05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.05	0.29
05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.21	0.29
05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.35	0.29
05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.49	0.29
05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.99	0.58
05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.90	0.58
05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.99	0.58
05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	6.61	0.58
05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.47	0.58
05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.57	0.58
05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.67	0.88
05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	25.58	0.88
05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	44.24	0.88
05 05 23 00-1353 304 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut	0.75	0.29
05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut	0.88	0.29
05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut	0.99	0.29
05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut	1.45	0.29
05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut	1.58	0.29
05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut	2.37	0.29
05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut	2.64	0.29
05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut	3.03	0.58
05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut	4.93	0.58
05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut	7.54	0.58
05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut	18.03	0.58
05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut	34.57	0.88
05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut	60.73	0.88
05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut	86.51	0.88
05 05 23 00-1368 316 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut	0.87	0.29
05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut	0.99	0.29
05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut	1.17	0.29
05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut	1.90	0.29
05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut	2.04	0.29
05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut	2.76	0.29
05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut	3.11	0.29
05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut	4.32	0.58
05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut	5.99	0.58
05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut	9.22	0.58
05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut	27.91	0.58
05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut	45.11	0.88
05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut	76.08	0.88
05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut	141.35	0.88
05 05 23 00-1383 Flat Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers <small>(05 05 23 00-1383)</small>		
05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.05	
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.08	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.14	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.21	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.30	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.34	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.58	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.83	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.99	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.21	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.37	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.64	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.57	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.64	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.90	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.85	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers <small>(05 05 23 00-1383)</small>		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1402	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.18	
05 05 23 00-1403	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.24	
05 05 23 00-1404	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.28	
05 05 23 00-1405	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.38	
05 05 23 00-1406	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.52	
05 05 23 00-1407	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.83	
05 05 23 00-1408	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.19	
05 05 23 00-1409	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.68	
05 05 23 00-1410	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.80	
05 05 23 00-1411	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.10	
05 05 23 00-1412	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.52	
05 05 23 00-1413	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.93	
05 05 23 00-1414	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.50	
05 05 23 00-1415	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.43	
05 05 23 00-1416	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.99	
05 05 23 00-1417	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.99	
05 05 23 00-1418			Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1419	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.12	
05 05 23 00-1420	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.17	
05 05 23 00-1421	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.19	
05 05 23 00-1422	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.35	
05 05 23 00-1423	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.45	
05 05 23 00-1424	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.73	
05 05 23 00-1425	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.82	
05 05 23 00-1426	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.24	
05 05 23 00-1427	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.75	
05 05 23 00-1428	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.92	
05 05 23 00-1429	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.93	
05 05 23 00-1430	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.26	
05 05 23 00-1431	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.66	
05 05 23 00-1432	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.05	
05 05 23 00-1433	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	7.33	
05 05 23 00-1434			304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1435	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.13	
05 05 23 00-1436	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.17	
05 05 23 00-1437	EA		3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1438	EA		7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.46	
05 05 23 00-1439	EA		1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.83	
05 05 23 00-1440	EA		9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.04	
05 05 23 00-1441	EA		5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.53	
05 05 23 00-1442	EA		3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.55	
05 05 23 00-1443	EA		7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.27	
05 05 23 00-1444	EA		1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.15	
05 05 23 00-1445	EA		1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.83	
05 05 23 00-1446	EA		1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.20	
05 05 23 00-1447	EA		1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.49	
05 05 23 00-1448	EA		1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.70	
05 05 23 00-1449	EA		1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	8.32	
05 05 23 00-1450	EA		2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	16.35	
05 05 23 00-1451			316 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1452	EA		1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1453	EA		5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.28	
05 05 23 00-1454	EA		3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.49	
05 05 23 00-1455	EA		7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.58	
05 05 23 00-1456	EA		1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.08	
05 05 23 00-1457	EA		9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.94	
05 05 23 00-1458	EA		5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.29	
05 05 23 00-1459	EA		3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.88	
05 05 23 00-1460	EA		7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.46	
05 05 23 00-1461	EA		1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.99	
05 05 23 00-1462	EA		1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.69	
05 05 23 00-1463	EA		1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.00	
05 05 23 00-1464	EA		1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.40	
05 05 23 00-1465	EA		1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.57	
05 05 23 00-1466	EA		1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	11.09	
05 05 23 00-1467			Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468			Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1471	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1472	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.08	
05 05 23 00-1473	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.19	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.22	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.33	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.55	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.99	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.45	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.23	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.52	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.14	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	7.39	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.33	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.14	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.16	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.25	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.32	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.38	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.64	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.92	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.45	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.62	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.13	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.52	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.17	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	7.00	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	9.53	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.11	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.40	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.44	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.07	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.26	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.47	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.66	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.76	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	6.56	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.72	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	11.09	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	13.31	
05 05 23 00-1517 316 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.13	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.29	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.34	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.58	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.64	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.14	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.25	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	2.16	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	3.58	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	4.87	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	6.79	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	10.46	
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	18.72	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	20.79	
05 05 23 00-1532 Load Indicating Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1532)</small>		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1533)</small>		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.41	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.73	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.94	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.34	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.04	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.72	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.67	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.07	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.18	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.05	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.40	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.30	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.04	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.78	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.21	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.07	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.91	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	14.20	
05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.98	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.06	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.16	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	5.05	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	5.32	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.73	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.98	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.98	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.33	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.73	
05 05 23 00-1567 Drilling In Steel Plates (05 05 23)		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	19.00	
For Aluminum, Deduct	-1.90	
For Stainless Steel, Add	2.38	
For >5 To 10, Deduct	-1.90	
For >10 To 25, Deduct	-4.75	
For >25 To 50, Deduct	-6.65	
For >50, Deduct	-9.50	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	22.35	
For Aluminum, Deduct	-2.24	
For Stainless Steel, Add	2.79	
For >5 To 10, Deduct	-2.24	
For >10 To 25, Deduct	-5.59	
For >25 To 50, Deduct	-7.82	
For >50, Deduct	-11.18	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	26.81	
For Aluminum, Deduct	-2.68	
For Stainless Steel, Add	3.35	
For >5 To 10, Deduct	-2.68	
For >10 To 25, Deduct	-6.70	
For >25 To 50, Deduct	-9.38	
For >50, Deduct	-13.41	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	31.29	
For Aluminum, Deduct	-3.13	
For Stainless Steel, Add	3.91	
For >5 To 10, Deduct	-3.13	
For >10 To 25, Deduct	-7.82	
For >25 To 50, Deduct	-10.95	
For >50, Deduct	-15.65	
05 05 23 00-1572 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	41.91	
For Aluminum, Deduct	-4.19	
For Stainless Steel, Add	5.24	
For >5 To 10, Deduct	-4.19	
For >10 To 25, Deduct	-10.48	
For >25 To 50, Deduct	-14.67	
For >50, Deduct	-20.96	
05 05 23 00-1573 EA Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	22.35	
For Aluminum, Deduct	-2.24	
For Stainless Steel, Add	2.79	
For >5 To 10, Deduct	-2.24	
For >10 To 25, Deduct	-5.59	
For >25 To 50, Deduct	-7.82	
For >50, Deduct	-11.18	
05 05 23 00-1574 EA >1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	27.93	
For Aluminum, Deduct	-2.79	
For Stainless Steel, Add	3.49	
For >5 To 10, Deduct	-2.79	
For >10 To 25, Deduct	-6.98	
For >25 To 50, Deduct	-9.78	
For >50, Deduct	-13.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1575 EA >7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	33.52	
<i>For Aluminum, Deduct</i>	-3.35	
<i>For Stainless Steel, Add</i>	4.19	
<i>For >5 To 10, Deduct</i>	-3.35	
<i>For >10 To 25, Deduct</i>	-8.38	
<i>For >25 To 50, Deduct</i>	-11.73	
<i>For >50, Deduct</i>	-16.76	
05 05 23 00-1576 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	41.91	
<i>For Aluminum, Deduct</i>	-4.19	
<i>For Stainless Steel, Add</i>	5.24	
<i>For >5 To 10, Deduct</i>	-4.19	
<i>For >10 To 25, Deduct</i>	-10.48	
<i>For >25 To 50, Deduct</i>	-14.67	
<i>For >50, Deduct</i>	-20.96	
05 05 23 00-1577 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	27.93	
<i>For Aluminum, Deduct</i>	-2.79	
<i>For Stainless Steel, Add</i>	3.49	
<i>For >5 To 10, Deduct</i>	-2.79	
<i>For >10 To 25, Deduct</i>	-6.98	
<i>For >25 To 50, Deduct</i>	-9.78	
<i>For >50, Deduct</i>	-13.97	
05 05 23 00-1578 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	36.87	
<i>For Aluminum, Deduct</i>	-3.69	
<i>For Stainless Steel, Add</i>	4.61	
<i>For >5 To 10, Deduct</i>	-3.69	
<i>For >10 To 25, Deduct</i>	-9.22	
<i>For >25 To 50, Deduct</i>	-12.90	
<i>For >50, Deduct</i>	-18.44	
05 05 23 00-1579 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	44.70	
<i>For Aluminum, Deduct</i>	-4.47	
<i>For Stainless Steel, Add</i>	5.59	
<i>For >5 To 10, Deduct</i>	-4.47	
<i>For >10 To 25, Deduct</i>	-11.18	
<i>For >25 To 50, Deduct</i>	-15.65	
<i>For >50, Deduct</i>	-22.35	

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

05 05 23 00-1581 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.62
05 05 23 00-1582 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.69
05 05 23 00-1583 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.72
05 05 23 00-1584 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.75
05 05 23 00-1585 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.61
05 05 23 00-1586 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.78
05 05 23 00-1587 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.95
05 05 23 00-1588 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.04
05 05 23 00-1589 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.13
05 05 23 00-1590 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.49
05 05 23 00-1591 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.78
05 05 23 00-1592 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.02
05 05 23 00-1593 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.37
05 05 23 00-1594 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.39
05 05 23 00-1595 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.66
05 05 23 00-1596 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.92
05 05 23 00-1597 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.23
05 05 23 00-1598 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.71
05 05 23 00-1599 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.03
05 05 23 00-1600 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.88
05 05 23 00-1601 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.50
05 05 23 00-1602 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.10
05 05 23 00-1603 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.51
05 05 23 00-1604 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.84
05 05 23 00-1605 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.18
05 05 23 00-1606 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.45
05 05 23 00-1607 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.70
05 05 23 00-1608 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.03
05 05 23 00-1609 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.42
05 05 23 00-1610 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	11.33

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

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

05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	7.76
05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	8.05
05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	8.13
05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	8.17
05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	8.50
05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	9.11
05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	14.97
05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	9.81
05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	10.88
05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	14.49

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	14.82	
05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	15.99	
05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	20.90	
05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	9.22	
05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	9.69	
05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	10.16	
05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	11.50	
05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	15.21	
05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	16.63	
05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	18.04	
05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	21.97	
05 05 23 00-1635 1" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	12.28	
05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	13.72	
05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	15.85	
05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	20.53	
05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	22.75	
05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	24.98	

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

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

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

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

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

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

05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	7,829.45	1,209.64
For ASTM A242 Type 2 High Strength Steel, Add	426.16	
For Hot Dip Galvanizing, Add	1,491.55	
For >10 To 25 Tons, Deduct	-452.79	
For >25 To 50 Tons, Deduct	-932.22	
For >50 Tons, Deduct	-1,331.74	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns.....	5,206.05	781.95
For ASTM A242 Type 2 High Strength Steel, Add	349.75	
For Hot Dip Galvanizing, Add	1,224.13	
For >10 To 25 Tons, Deduct	-371.61	
For >25 To 50 Tons, Deduct	-765.08	
For >50 Tons, Deduct	-1,092.97	
05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns.....	4,350.51	439.89
For ASTM A242 Type 2 High Strength Steel, Add	310.50	
For Hot Dip Galvanizing, Add	1,086.76	
For >10 To 25 Tons, Deduct	-329.91	
For >25 To 50 Tons, Deduct	-679.23	
For >50 Tons, Deduct	-970.32	
05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns.....	2,903.56	234.14
For ASTM A242 Type 2 High Strength Steel, Add	212.27	
For Hot Dip Galvanizing, Add	742.93	
For >10 To 25 Tons, Deduct	-225.53	
For >25 To 50 Tons, Deduct	-464.33	
For >50 Tons, Deduct	-663.33	

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

05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members.....	5,521.80	822.65
For ASTM A242 Type 2 High Strength Steel, Add	371.58	
For Hot Dip Galvanizing, Add	1,300.53	
For >10 To 25 Tons, Deduct	-394.80	
For >25 To 50 Tons, Deduct	-812.83	
For >50 Tons, Deduct	-1,161.19	

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,440.74 615.43 2,154.01 -653.90 -1,346.26 -1,923.22	2,248.71
05 12 23 00-0012 TON >10 To 20 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,861.53 588.72 2,060.53 -625.52 -1,287.83 -1,839.76	1,319.66
05 12 23 00-0013 TON >20 To 58 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,307.66 517.89 1,812.62 -550.26 -1,132.89 -1,618.41	781.95
05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,732.98 606.14 2,121.50 -644.03 -1,325.93 -1,894.19	3,079.22
05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,759.92 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	2,346.07
05 12 23 00-0017 TON >20 To 58 LB/LF Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,191.54 508.60 1,780.11 -540.39 -1,112.57 -1,589.38	781.95
05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,525.81 592.21 2,072.73 -629.22 -1,295.45 -1,850.65	1,784.19
05 12 23 00-0020 TON >20 To 50 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,801.17 557.37 1,950.80 -592.21 -1,219.25 -1,741.79	781.95
05 12 23 00-0021 TON >50 To 80 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,839.73 429.64 1,503.74 -456.49 -939.84 -1,342.63	439.89
05 12 23 00-0022 TON >80 To 115 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	3,733.42 278.69 975.40 -296.10 -609.62 -870.89	234.49
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,469.63 557.37 1,950.80 -592.21 -1,219.25 -1,741.79	1,319.66
05 12 23 00-0025 TON >30 To 65 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,161.12 426.16 1,491.55 -452.79 -932.22 -1,331.74	781.95

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65 To 100 LB/LF Structural WT, MT, ST Tee Shapes	4,823.69	439.89
For ASTM A242 Type 2 High Strength Steel, Add	348.36	
For Hot Dip Galvanizing, Add	1,219.25	
For >10 To 25 Tons, Deduct	-370.13	
For >25 To 50 Tons, Deduct	-762.03	
For >50 Tons, Deduct	-1,088.62	
05 12 23 00-0027 TON >100 To 365 LB/LF Structural WT, MT, ST Tee Shapes	3,530.60	234.14
For ASTM A242 Type 2 High Strength Steel, Add	262.43	
For Hot Dip Galvanizing, Add	918.50	
For >10 To 25 Tons, Deduct	-278.83	
For >25 To 50 Tons, Deduct	-574.06	
For >50 Tons, Deduct	-820.09	
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles	9,019.66	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	521.37	
For Hot Dip Galvanizing, Add	1,824.81	
For >10 To 25 Tons, Deduct	-553.96	
For >25 To 50 Tons, Deduct	-1,140.51	
For >50 Tons, Deduct	-1,629.30	
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles	6,204.68	781.95
For ASTM A242 Type 2 High Strength Steel, Add	429.64	
For Hot Dip Galvanizing, Add	1,503.75	
For >10 To 25 Tons, Deduct	-456.49	
For >25 To 50 Tons, Deduct	-939.84	
For >50 Tons, Deduct	-1,342.63	
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles	4,460.81	439.89
For ASTM A242 Type 2 High Strength Steel, Add	319.33	
For Hot Dip Galvanizing, Add	1,117.65	
For >10 To 25 Tons, Deduct	-339.29	
For >25 To 50 Tons, Deduct	-698.53	
For >50 Tons, Deduct	-997.90	
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles	3,820.52	234.14
For ASTM A242 Type 2 High Strength Steel, Add	285.65	
For Hot Dip Galvanizing, Add	999.79	
For >10 To 25 Tons, Deduct	-303.51	
For >25 To 50 Tons, Deduct	-624.87	
For >50 Tons, Deduct	-892.67	
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles	3,274.86	117.54
For ASTM A242 Type 2 High Strength Steel, Add	251.98	
For Hot Dip Galvanizing, Add	881.93	
For >10 To 25 Tons, Deduct	-267.73	
For >25 To 50 Tons, Deduct	-551.20	
For >50 Tons, Deduct	-787.44	
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	5,972.43	781.95
For ASTM A242 Type 2 High Strength Steel, Add	411.06	
For Hot Dip Galvanizing, Add	1,438.72	
For >10 To 25 Tons, Deduct	-436.75	
For >25 To 50 Tons, Deduct	-899.20	
For >50 Tons, Deduct	-1,284.57	
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	4,475.33	439.89
For ASTM A242 Type 2 High Strength Steel, Add	320.49	
For Hot Dip Galvanizing, Add	1,121.71	
For >10 To 25 Tons, Deduct	-340.52	
For >25 To 50 Tons, Deduct	-701.07	
For >50 Tons, Deduct	-1,001.53	
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	9,469.63	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	557.37	
For Hot Dip Galvanizing, Add	1,950.80	
For >10 To 25 Tons, Deduct	-592.21	
For >25 To 50 Tons, Deduct	-1,219.25	
For >50 Tons, Deduct	-1,741.79	
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	6,494.97	781.95
For ASTM A242 Type 2 High Strength Steel, Add	452.86	
For Hot Dip Galvanizing, Add	1,585.03	
For >10 To 25 Tons, Deduct	-481.17	
For >25 To 50 Tons, Deduct	-990.64	
For >50 Tons, Deduct	-1,415.20	
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	4,576.93	439.89
For ASTM A242 Type 2 High Strength Steel, Add	328.62	
For Hot Dip Galvanizing, Add	1,150.16	
For >10 To 25 Tons, Deduct	-349.16	
For >25 To 50 Tons, Deduct	-718.85	
For >50 Tons, Deduct	-1,026.93	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....	5,279.39	703.82
For ASTM A242 Type 2 High Strength Steel, Add	362.29	
For Hot Dip Galvanizing, Add	1,268.02	
For >10 To 25 Tons, Deduct	-384.94	
For >25 To 50 Tons, Deduct	-792.51	
For >50 Tons, Deduct	-1,132.16	
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....	5,670.28	879.78
For ASTM A242 Type 2 High Strength Steel, Add	378.55	
For Hot Dip Galvanizing, Add	1,324.92	
For >10 To 25 Tons, Deduct	-402.21	
For >25 To 50 Tons, Deduct	-828.07	
For >50 Tons, Deduct	-1,182.96	
05 12 23 00-0045 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0046 Steel Rods <small>(05 12 23 00-0045)</small>		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....	5,637.70	549.92
For ASTM A242 Type 2 High Strength Steel, Add	404.09	
For Hot Dip Galvanizing, Add	1,414.33	
For >10 To 25 Tons, Deduct	-429.35	
For >25 To 50 Tons, Deduct	-883.96	
For >50 Tons, Deduct	-1,262.80	
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid.....	6,494.97	781.95
For ASTM A242 Type 2 High Strength Steel, Add	452.86	
For Hot Dip Galvanizing, Add	1,585.03	
For >10 To 25 Tons, Deduct	-481.17	
For >25 To 50 Tons, Deduct	-990.64	
For >50 Tons, Deduct	-1,415.20	
05 12 23 00-0049 Column Base Plates <small>(05 12 23 00-0045)</small>		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items.....	2.96	0.74
For ASTM A242 Type 2 High Strength Steel, Add	0.17	
For Hot Dip Galvanizing, Add	0.61	
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items.....	2.77	0.62
For ASTM A242 Type 2 High Strength Steel, Add	0.17	
For Hot Dip Galvanizing, Add	0.58	
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items.....	5,186.36	652.83
For ASTM A242 Type 2 High Strength Steel, Add	359.20	
For Hot Dip Galvanizing, Add	1,257.20	
For >10 To 25 Tons, Deduct	-381.65	
For >25 To 50 Tons, Deduct	-785.75	
For >50 Tons, Deduct	-1,122.50	
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items.....	3,665.38	391.70
For ASTM A242 Type 2 High Strength Steel, Add	259.80	
For Hot Dip Galvanizing, Add	909.32	
For >10 To 25 Tons, Deduct	-276.04	
For >25 To 50 Tons, Deduct	-568.32	
For >50 Tons, Deduct	-811.89	
05 12 23 00-0054 Double Extra Strong Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0055 TON 2" To 5" Diameter Double Extra Strong Pipe.....	6,849.42	1,005.41
For ASTM A242 Type 2 High Strength Steel, Add	462.15	
For Hot Dip Galvanizing, Add	1,617.54	
For >10 To 25 Tons, Deduct	-491.04	
For >25 To 50 Tons, Deduct	-1,010.96	
For >50 Tons, Deduct	-1,444.23	
05 12 23 00-0056 TON >5" To 8" Diameter Double Extra Strong Pipe.....	6,354.42	541.35
For ASTM A242 Type 2 High Strength Steel, Add	462.15	
For Hot Dip Galvanizing, Add	1,617.54	
For >10 To 25 Tons, Deduct	-491.04	
For >25 To 50 Tons, Deduct	-1,010.96	
For >50 Tons, Deduct	-1,444.23	
05 12 23 00-0057 Structural Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0058 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items.....	4,778.89	464.53
For ASTM A242 Type 2 High Strength Steel, Add	325.13	
For Hot Dip Galvanizing, Add	1,137.97	
For >10 To 25 Tons, Deduct	-345.45	
For >25 To 50 Tons, Deduct	-711.23	
For >50 Tons, Deduct	-1,016.04	

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

MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0059	TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,246.07 325.13 1,137.97 -345.45 -711.23 -1,016.04	535.73
05 12 23 00-0060	Structural Tubing (05 12 23 00-0045)		
05 12 23 00-0061	Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,757.94 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	469.22
05 12 23 00-0063	TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,834.93 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	541.35
05 12 23 00-0064	TON 5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,867.02 499.31 1,747.59 -530.52 -1,092.25 -1,560.35	586.52
05 12 23 00-0065	TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,556.70 464.48 1,625.67 -493.51 -1,016.04 -1,451.49	703.82
05 12 23 00-0066	TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,204.67 429.64 1,503.74 -456.49 -939.84 -1,342.63	781.95
05 12 23 00-0067	TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,524.79 429.64 1,503.74 -456.49 -939.84 -1,342.63	1,082.13
05 12 23 00-0068	TON 10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,012.53 438.93 1,536.26 -466.36 -960.16 -1,371.66	1,430.52
05 12 23 00-0069	TON 12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,211.53 443.58 1,552.51 -471.30 -970.32 -1,386.17	1,562.61
05 12 23 00-0070	TON 14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,421.55 443.58 1,552.51 -471.30 -970.32 -1,386.17	1,759.56
05 12 23 00-0071	TON 16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,429.62 438.93 1,536.26 -466.36 -960.16 -1,371.66	3,696.59
05 12 23 00-0072	TON 18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,843.96 427.32 1,495.61 -454.03 -934.76 -1,335.37	2,346.07
05 12 23 00-0073	TON 20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,389.02 450.54 1,576.90 -478.70 -985.56 -1,407.95	5,397.49
05 12 23 00-0074	Square Structural Tubing (05 12 23 00-0060)		



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0075			TON 2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,726.66 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	439.89
05 12 23 00-0076			TON 2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,757.94 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	469.22
05 12 23 00-0077			TON 3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,012.17 510.92 1,788.23 -542.86 -1,117.65 -1,596.64	586.52
05 12 23 00-0078			TON 3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,992.14 499.31 1,747.59 -530.52 -1,092.25 -1,560.35	703.82
05 12 23 00-0079			TON 4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,699.31 380.87 1,333.05 -404.67 -833.15 -1,190.22	879.78
05 12 23 00-0080			TON 5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,833.37 380.87 1,333.05 -404.67 -833.15 -1,190.22	1,005.41
05 12 23 00-0081			TON 6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,262.37 380.87 1,333.05 -404.67 -833.15 -1,190.22	1,407.65
05 12 23 00-0082			TON 7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,724.83 387.84 1,357.43 -412.08 -848.39 -1,211.99	1,759.56
05 12 23 00-0083			TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,134.26 450.54 1,576.90 -478.70 -985.56 -1,407.95	2,346.07
05 12 23 00-0084			TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,385.50 450.54 1,576.90 -478.70 -985.56 -1,407.95	3,519.11
05 12 23 00-0085			TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,253.74 387.84 1,357.43 -412.08 -848.39 -1,211.99	4,130.38
05 12 23 00-0086			TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,272.90 441.25 1,544.38 -468.83 -965.24 -1,378.92	5,397.49
05 12 23 00-0087			TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,139.22 450.54 1,576.90 -478.70 -985.56 -1,407.95	7,038.22

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089	TON		Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF).....	8,270.07	2,611.34
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	330.01	
			<i>For Hot Dip Galvanizing, Add</i>	1,155.02	
			<i>For >20 To 50 LB/LF, Deduct</i>	-1,034.26	
			<i>For >50 To 75 LB/LF, Deduct</i>	-1,655.01	
			<i>For >75 To 100 LB/LF, Deduct</i>	-2,275.76	
			<i>For >10 To 25 Tons, Deduct</i>	-350.63	
			<i>For >25 To 50 Tons, Deduct</i>	-721.89	
			<i>For >50 Tons, Deduct</i>	-1,031.27	
05 12 23 00-0090	TON		Structural Shapes, Steel Plate A36 Structural Steel	6,033.87	1,044.54
			Note: Up to 21.5 LB per SF		
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	371.59	
			<i>For Hot Dip Galvanizing, Add</i>	1,300.56	
			<i>For >21.5 To 50 LB/LF, Deduct</i>	-672.84	
			<i>For >10 To 25 Tons, Deduct</i>	-394.81	
			<i>For >25 To 50 Tons, Deduct</i>	-812.85	
			<i>For >50 Tons, Deduct</i>	-1,161.22	
05 12 23 00-0091	LB		Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	3.49	0.23
05 12 23 00-0092	LB		Structural Shapes, Galvanized Pipe Supports	4.21	0.23
05 12 23 00-0093			Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094	TON		Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up	6,282.93	351.91
			<i>For >10 To 25 Tons, Deduct</i>	-502.14	
			<i>For >25 To 50 Tons, Deduct</i>	-1,033.82	
			<i>For >50 Tons, Deduct</i>	-1,476.89	
05 12 23 00-0095	TON		>50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	6,174.16	195.43
			<i>For >10 To 25 Tons, Deduct</i>	-507.08	
			<i>For >25 To 50 Tons, Deduct</i>	-1,043.98	
			<i>For >50 Tons, Deduct</i>	-1,491.41	
05 12 23 00-0096	TON		>100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	5,480.92	103.46
			<i>For >10 To 25 Tons, Deduct</i>	-456.49	
			<i>For >25 To 50 Tons, Deduct</i>	-939.84	
			<i>For >50 Tons, Deduct</i>	-1,342.63	
05 12 23 00-0097	TON		>200 LF Span Average Weight 180 LB/LF Trusses, Built-up.....	5,329.63	97.83
			<i>For >10 To 25 Tons, Deduct</i>	-444.16	
			<i>For >25 To 50 Tons, Deduct</i>	-914.44	
			<i>For >50 Tons, Deduct</i>	-1,306.34	
05 12 23 00-0098			Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045)		
			Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099	SF		1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	22.69	7.52
05 12 23 00-0100	SF		3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	34.05	11.25
05 12 23 00-0101	SF		1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	45.39	15.00
05 12 23 00-0102	SF		5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	56.74	18.74
05 12 23 00-0103	SF		3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	68.08	22.38
05 12 23 00-0104	SF		7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	79.43	26.24
05 12 23 00-0105	SF		1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	90.78	29.99
05 12 23 00-0106	SF		1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	102.13	33.74
05 12 23 00-0107	SF		1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	113.48	37.49
05 12 23 00-0108	SF		1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	124.82	41.24
05 12 23 00-0109	SF		1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	136.17	44.99
05 12 23 00-0110	SF		1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	147.52	48.74
05 12 23 00-0111	SF		1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	158.88	52.48
05 12 23 00-0112	SF		1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	170.22	56.23
05 12 23 00-0113	SF		2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	181.57	59.98
05 12 23 00-0114			Accessories For Steel (05 12 23)		
05 12 23 00-0115			Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116	SF		Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.06	
05 12 23 00-0117			Connection And Stiffener Plates (05 12 23 00-0114)		
			Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118	TON		1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates	13,409.26	
			<i>For >10 To 25 Tons, Deduct</i>	-1,139.79	
			<i>For >25 To 50 Tons, Deduct</i>	-2,346.62	
			<i>For >50 Tons, Deduct</i>	-3,352.32	
05 12 23 00-0119	TON		3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	11,440.73	
			<i>For >10 To 25 Tons, Deduct</i>	-972.46	
			<i>For >25 To 50 Tons, Deduct</i>	-2,002.13	
			<i>For >50 Tons, Deduct</i>	-2,860.18	
05 12 23 00-0120	TON		1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	8,847.35	
			<i>For >10 To 25 Tons, Deduct</i>	-752.02	
			<i>For >25 To 50 Tons, Deduct</i>	-1,548.29	
			<i>For >50 Tons, Deduct</i>	-2,211.84	
05 12 23 00-0121	TON		5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	8,847.35	
			<i>For >10 To 25 Tons, Deduct</i>	-752.02	
			<i>For >25 To 50 Tons, Deduct</i>	-1,548.29	
			<i>For >50 Tons, Deduct</i>	-2,211.84	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0129 Field Applied Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0130 SF Brush Applied Cold Galvanizing		1.99
05 12 23 00-0131 Metal Grinding (05 12 23 00-0114)		
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132 SI Metal Grinding Up To 1/32" Thickness To Be Removed.....		1.20
Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0133 Structural Steel For Buildings And Structures (05 12 23)		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0134 First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0133)		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135 LF W14 x 730 A992/A36 Structural Column	1,274.66	72.43
For Hot Dip Galvanizing, Add	332.29	
For High Strength Low Alloy A572-50 Steel, Add	114.72	
For High Strength Low Alloy A588 Grade B Steel, Add	254.93	
05 12 23 00-0136 LF W14 x 665 A992/A36 Structural Column	1,162.79	67.51
For Hot Dip Galvanizing, Add	302.71	
For High Strength Low Alloy A572-50 Steel, Add	104.65	
For High Strength Low Alloy A588 Grade B Steel, Add	232.56	
05 12 23 00-0137 LF W14 x 605 A992/A36 Structural Column	1,059.41	62.84
For Hot Dip Galvanizing, Add	275.39	
For High Strength Low Alloy A572-50 Steel, Add	95.35	
For High Strength Low Alloy A588 Grade B Steel, Add	211.88	
05 12 23 00-0138 LF W14 x 550 A992/A36 Structural Column	964.51	58.45
For Hot Dip Galvanizing, Add	250.36	
For High Strength Low Alloy A572-50 Steel, Add	86.81	
For High Strength Low Alloy A588 Grade B Steel, Add	192.90	
05 12 23 00-0139 LF W14 x 500 A992/A36 Structural Column	885.26	61.00
For Hot Dip Galvanizing, Add	227.60	
For High Strength Low Alloy A572-50 Steel, Add	79.67	
For High Strength Low Alloy A588 Grade B Steel, Add	177.05	
05 12 23 00-0140 LF W14 x 426 A992/A36 Structural Column	755.53	53.25
For Hot Dip Galvanizing, Add	193.91	
For High Strength Low Alloy A572-50 Steel, Add	68.00	
For High Strength Low Alloy A588 Grade B Steel, Add	151.11	
05 12 23 00-0141 LF W14 x 342 A992/A36 Structural Column	611.51	46.10
For Hot Dip Galvanizing, Add	156.07	
For High Strength Low Alloy A572-50 Steel, Add	55.04	
For High Strength Low Alloy A588 Grade B Steel, Add	122.30	
05 12 23 00-0142 LF W14 x 311 A992/A36 Structural Column	551.06	43.05
For Hot Dip Galvanizing, Add	140.17	
For High Strength Low Alloy A572-50 Steel, Add	49.60	
For High Strength Low Alloy A588 Grade B Steel, Add	110.21	
05 12 23 00-0143 LF W14 x 283 A992/A36 Structural Column	500.45	40.59
For Hot Dip Galvanizing, Add	126.88	
For High Strength Low Alloy A572-50 Steel, Add	45.04	
For High Strength Low Alloy A588 Grade B Steel, Add	100.09	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0144	LF		W14 x 257 A992/A36 Structural Column	440.41	38.48
			<i>For Hot Dip Galvanizing, Add</i>	110.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	39.64	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.08	
05 12 23 00-0145	LF		W14 x 233 A992/A36 Structural Column	405.37	35.78
			<i>For Hot Dip Galvanizing, Add</i>	101.91	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.07	
05 12 23 00-0146	LF		W14 x 211 A992/A36 Structural Column	360.85	33.32
			<i>For Hot Dip Galvanizing, Add</i>	90.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	32.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.17	
05 12 23 00-0147	LF		W14 x 193 A992/A36 Structural Column	326.66	31.67
			<i>For Hot Dip Galvanizing, Add</i>	81.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.40	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	65.33	
05 12 23 00-0148	LF		W14 x 176 A992/A36 Structural Column	294.73	30.26
			<i>For Hot Dip Galvanizing, Add</i>	72.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.53	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.95	
05 12 23 00-0149	LF		W14 x 159 A992/A36 Structural Column	266.83	29.21
			<i>For Hot Dip Galvanizing, Add</i>	65.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.01	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	53.37	
05 12 23 00-0150	LF		W14 x 145 A992/A36 Structural Column	257.88	28.27
			<i>For Hot Dip Galvanizing, Add</i>	63.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.21	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.58	
05 12 23 00-0151	LF		W14 x 132 A992/A36 Structural Column	221.06	26.98
			<i>For Hot Dip Galvanizing, Add</i>	53.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.90	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.21	
05 12 23 00-0152	LF		W14 x 120 A992/A36 Structural Column	207.44	26.28
			<i>For Hot Dip Galvanizing, Add</i>	49.79	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.67	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.49	
05 12 23 00-0153	LF		W14 x 109 A992/A36 Structural Column	186.06	25.22
			<i>For Hot Dip Galvanizing, Add</i>	44.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.75	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.21	
05 12 23 00-0154	LF		W14 x 99 A992/A36 Structural Column	170.03	24.52
			<i>For Hot Dip Galvanizing, Add</i>	39.96	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.30	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.01	
05 12 23 00-0155	LF		W14 x 90 A992/A36 Structural Column	158.18	23.93
			<i>For Hot Dip Galvanizing, Add</i>	36.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.24	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.64	
05 12 23 00-0156	LF		W14 x 82 A992/A36 Structural Column	145.94	23.22
			<i>For Hot Dip Galvanizing, Add</i>	33.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.19	
05 12 23 00-0157	LF		W14 x 74 A992/A36 Structural Column	132.08	22.64
			<i>For Hot Dip Galvanizing, Add</i>	29.98	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.42	
05 12 23 00-0158	LF		W14 x 68 A992/A36 Structural Column	123.58	22.29
			<i>For Hot Dip Galvanizing, Add</i>	27.72	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.72	
05 12 23 00-0159	LF		W14 x 61 A992/A36 Structural Column	112.95	21.71
			<i>For Hot Dip Galvanizing, Add</i>	24.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.17	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.59	
05 12 23 00-0160	LF		W14 x 53 A992/A36 Structural Column	103.13	21.11
			<i>For Hot Dip Galvanizing, Add</i>	22.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.28	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.63	
05 12 23 00-0161	LF		W14 x 48 A992/A36 Structural Column	96.81	20.76
			<i>For Hot Dip Galvanizing, Add</i>	20.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.71	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.36	
05 12 23 00-0162	LF		W14 x 43 A992/A36 Structural Column	87.67	20.41
			<i>For Hot Dip Galvanizing, Add</i>	18.30	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.53	
05 12 23 00-0163	LF		W12 x 336 A992/A36 Structural Column	581.10	32.26
			<i>For Hot Dip Galvanizing, Add</i>	151.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	52.30	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	116.22	
05 12 23 00-0164	LF		W12 x 305 A992/A36 Structural Column	529.99	31.61
			<i>For Hot Dip Galvanizing, Add</i>	137.72	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	47.70	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.00	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	487.26 125.98 43.85 97.45	31.23
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	442.50 113.79 39.83 88.50	30.45
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	406.24 103.85 36.56 81.25	30.01
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	373.24 94.82 33.59 74.65	29.59
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	343.76 85.79 30.94 68.75	32.37
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	311.02 77.03 27.99 62.20	31.44
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	280.53 69.22 25.25 56.11	29.21
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	266.81 65.64 24.01 53.36	28.38
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	202.86 48.55 18.26 40.57	26.04
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	187.15 44.48 16.84 37.43	25.22
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	167.74 39.36 15.10 33.55	24.40
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	154.96 36.00 13.95 30.99	23.57
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	136.36 31.07 12.27 27.27	22.87
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	125.05 28.09 11.25 25.01	22.29
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	114.57 25.35 10.31 22.91	21.82
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	110.93 24.40 9.98 22.19	21.58
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	103.13 22.37 9.28 20.63	21.11
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	100.04 21.54 9.00 20.01	21.00
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.15 19.21 8.20 18.23	20.53
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.99 16.80 7.38 16.40	20.06
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	195.62 46.70 17.61 39.12	25.69

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0186	LF		W10 x 110 A992/A36 Structural Column	177.19	24.64
			For Hot Dip Galvanizing, Add	41.88	
			For High Strength Low Alloy A572-50 Steel, Add	15.95	
			For High Strength Low Alloy A588 Grade B Steel, Add	35.44	
05 12 23 00-0187	LF		W10 x 88 A992/A36 Structural Column	159.56	23.81
			For Hot Dip Galvanizing, Add	37.25	
			For High Strength Low Alloy A572-50 Steel, Add	14.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	31.91	
05 12 23 00-0188	LF		W10 x 77 A992/A36 Structural Column	142.20	22.87
			For Hot Dip Galvanizing, Add	32.69	
			For High Strength Low Alloy A572-50 Steel, Add	12.80	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.44	
05 12 23 00-0189	LF		W10 x 68 A992/A36 Structural Column	128.33	22.29
			For Hot Dip Galvanizing, Add	29.04	
			For High Strength Low Alloy A572-50 Steel, Add	11.55	
			For High Strength Low Alloy A588 Grade B Steel, Add	25.67	
05 12 23 00-0190	LF		W10 x 60 A992/A36 Structural Column	112.95	21.71
			For Hot Dip Galvanizing, Add	24.93	
			For High Strength Low Alloy A572-50 Steel, Add	10.17	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.59	
05 12 23 00-0191	LF		W10 x 54 A992/A36 Structural Column	112.17	21.35
			For Hot Dip Galvanizing, Add	24.78	
			For High Strength Low Alloy A572-50 Steel, Add	10.10	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.43	
05 12 23 00-0192	LF		W10 x 49 A992/A36 Structural Column	98.83	21.00
			For Hot Dip Galvanizing, Add	21.24	
			For High Strength Low Alloy A572-50 Steel, Add	8.89	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.77	
05 12 23 00-0193	LF		W10 x 45 A992/A36 Structural Column	95.48	20.65
			For Hot Dip Galvanizing, Add	20.37	
			For High Strength Low Alloy A572-50 Steel, Add	8.59	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.10	
05 12 23 00-0194	LF		W10 x 39 A992/A36 Structural Column	83.47	20.29
			For Hot Dip Galvanizing, Add	17.17	
			For High Strength Low Alloy A572-50 Steel, Add	7.51	
			For High Strength Low Alloy A588 Grade B Steel, Add	16.69	
05 12 23 00-0195	LF		W10 x 33 A992/A36 Structural Column	73.11	19.71
			For Hot Dip Galvanizing, Add	14.46	
			For High Strength Low Alloy A572-50 Steel, Add	6.58	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.62	
05 12 23 00-0196	LF		W8 x 67 A992/A36 Structural Column	123.71	22.29
			For Hot Dip Galvanizing, Add	27.76	
			For High Strength Low Alloy A572-50 Steel, Add	11.13	
			For High Strength Low Alloy A588 Grade B Steel, Add	24.74	
05 12 23 00-0197	LF		W8 x 58 A992/A36 Structural Column	111.34	21.58
			For Hot Dip Galvanizing, Add	24.52	
			For High Strength Low Alloy A572-50 Steel, Add	10.02	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.27	
05 12 23 00-0198	LF		W8 x 48 A992/A36 Structural Column	99.92	21.00
			For Hot Dip Galvanizing, Add	21.54	
			For High Strength Low Alloy A572-50 Steel, Add	8.99	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.98	
05 12 23 00-0199	LF		W8 x 40 A992/A36 Structural Column	86.17	20.41
			For Hot Dip Galvanizing, Add	17.89	
			For High Strength Low Alloy A572-50 Steel, Add	7.76	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.23	
05 12 23 00-0200	LF		W8 x 35 A992/A36 Structural Column	78.09	19.94
			For Hot Dip Galvanizing, Add	15.78	
			For High Strength Low Alloy A572-50 Steel, Add	7.03	
			For High Strength Low Alloy A588 Grade B Steel, Add	15.62	
05 12 23 00-0201	LF		W8 x 31 A992/A36 Structural Column	71.62	19.71
			For Hot Dip Galvanizing, Add	14.05	
			For High Strength Low Alloy A572-50 Steel, Add	6.45	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.32	
05 12 23 00-0202	LF		W8 x 28 A992/A36 Structural Column	67.58	19.48
			For Hot Dip Galvanizing, Add	12.99	
			For High Strength Low Alloy A572-50 Steel, Add	6.08	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.52	
05 12 23 00-0203	LF		W8 x 24 A992/A36 Structural Column	62.74	19.23
			For Hot Dip Galvanizing, Add	11.71	
			For High Strength Low Alloy A572-50 Steel, Add	5.65	
			For High Strength Low Alloy A588 Grade B Steel, Add	12.55	
05 12 23 00-0204	LF		W8 x 21 A992/A36 Structural Column	59.52	19.12
			For Hot Dip Galvanizing, Add	10.88	
			For High Strength Low Alloy A572-50 Steel, Add	5.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.90	
05 12 23 00-0205	LF		W8 x 18 A992/A36 Structural Column	53.45	18.77
			For Hot Dip Galvanizing, Add	9.27	
			For High Strength Low Alloy A572-50 Steel, Add	4.81	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.69	
05 12 23 00-0206	LF		W6 x 25 A992/A36 Structural Column	65.72	19.23
			For Hot Dip Galvanizing, Add	12.54	
			For High Strength Low Alloy A572-50 Steel, Add	5.91	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.14	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0207 LF W6 x 20 A992/A36 Structural Column	56.01	18.88
For Hot Dip Galvanizing, Add	9.94	
For High Strength Low Alloy A572-50 Steel, Add	5.04	
For High Strength Low Alloy A588 Grade B Steel, Add	11.20	
05 12 23 00-0208 LF W6 x 15 A992/A36 Structural Column	48.36	18.30
For Hot Dip Galvanizing, Add	7.98	
For High Strength Low Alloy A572-50 Steel, Add	4.35	
For High Strength Low Alloy A588 Grade B Steel, Add	9.67	
05 12 23 00-0209 LF W6 x 12 A992/A36 Structural Column	45.51	18.30
For Hot Dip Galvanizing, Add	7.19	
For High Strength Low Alloy A572-50 Steel, Add	4.10	
For High Strength Low Alloy A588 Grade B Steel, Add	9.10	
05 12 23 00-0210 LF W6 x 9 A992/A36 Structural Column	41.87	18.18
For Hot Dip Galvanizing, Add	6.21	
For High Strength Low Alloy A572-50 Steel, Add	3.77	
For High Strength Low Alloy A588 Grade B Steel, Add	8.37	
05 12 23 00-0211 LF W5 x 19 A992/A36 Structural Column	55.19	18.88
For Hot Dip Galvanizing, Add	9.72	
For High Strength Low Alloy A572-50 Steel, Add	4.97	
For High Strength Low Alloy A588 Grade B Steel, Add	11.04	
05 12 23 00-0212 LF W5 x 16 A992/A36 Structural Column	51.02	18.77
For Hot Dip Galvanizing, Add	8.62	
For High Strength Low Alloy A572-50 Steel, Add	4.59	
For High Strength Low Alloy A588 Grade B Steel, Add	10.20	
05 12 23 00-0213 LF W4 x 13 A992/A36 Structural Column	47.94	18.53
For Hot Dip Galvanizing, Add	7.83	
For High Strength Low Alloy A572-50 Steel, Add	4.31	
For High Strength Low Alloy A588 Grade B Steel, Add	9.59	
05 12 23 00-0214 A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0215 LF W36 x 300 A992/A36 Structural Beam Or Girder	433.15	79.32
For Hot Dip Galvanizing, Add	96.72	
For High Strength Low Alloy A572-50 Steel, Add	38.98	
For High Strength Low Alloy A588 Steel, Add	86.63	
For Each Additional Top Copes >2, Add	3.49	
For Structural Tees, WT, MT Or ST, Deduct	-138.91	
For Skewed Or Sloped Connections, Add	51.98	
05 12 23 00-0216 LF W36 x 280 A992/A36 Structural Beam Or Girder	419.15	87.98
For Hot Dip Galvanizing, Add	90.27	
For High Strength Low Alloy A572-50 Steel, Add	37.72	
For High Strength Low Alloy A588 Steel, Add	83.83	
For Each Additional Top Copes >2, Add	3.25	
For Structural Tees, WT, MT Or ST, Deduct	-132.63	
For Skewed Or Sloped Connections, Add	50.30	
05 12 23 00-0217 LF W36 x 260 A992/A36 Structural Beam Or Girder	397.76	86.92
For Hot Dip Galvanizing, Add	84.66	
For High Strength Low Alloy A572-50 Steel, Add	35.80	
For High Strength Low Alloy A588 Steel, Add	79.55	
For Each Additional Top Copes >2, Add	3.05	
For Structural Tees, WT, MT Or ST, Deduct	-125.32	
For Skewed Or Sloped Connections, Add	47.73	
05 12 23 00-0218 LF W36 x 240 A992/A36 Structural Beam Or Girder	371.28	76.45
For Hot Dip Galvanizing, Add	80.40	
For High Strength Low Alloy A572-50 Steel, Add	33.42	
For High Strength Low Alloy A588 Steel, Add	74.26	
For Each Additional Top Copes >2, Add	2.90	
For Structural Tees, WT, MT Or ST, Deduct	-117.72	
For Skewed Or Sloped Connections, Add	44.55	
05 12 23 00-0219 LF W36 x 230 A992/A36 Structural Beam Or Girder	360.36	77.54
For Hot Dip Galvanizing, Add	77.05	
For High Strength Low Alloy A572-50 Steel, Add	32.43	
For High Strength Low Alloy A588 Steel, Add	72.07	
For Each Additional Top Copes >2, Add	2.78	
For Structural Tees, WT, MT Or ST, Deduct	-113.72	
For Skewed Or Sloped Connections, Add	43.24	
05 12 23 00-0220 LF W36 x 210 A992/A36 Structural Beam Or Girder	343.24	84.11
For Hot Dip Galvanizing, Add	70.35	
For High Strength Low Alloy A572-50 Steel, Add	30.89	
For High Strength Low Alloy A588 Steel, Add	68.65	
For Each Additional Top Copes >2, Add	2.54	
For Structural Tees, WT, MT Or ST, Deduct	-106.67	
For Skewed Or Sloped Connections, Add	41.19	
05 12 23 00-0221 LF W36 x 194 A992/A36 Structural Beam Or Girder	323.95	74.15
For Hot Dip Galvanizing, Add	67.95	
For High Strength Low Alloy A572-50 Steel, Add	29.16	
For High Strength Low Alloy A588 Steel, Add	64.79	
For Each Additional Top Copes >2, Add	2.45	
For Structural Tees, WT, MT Or ST, Deduct	-101.52	
For Skewed Or Sloped Connections, Add	38.87	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0222	LF		W36 x 182 A992/A36 Structural Beam Or Girder.....	308.22	73.61
			For Hot Dip Galvanizing, Add	63.74	
			For High Strength Low Alloy A572-50 Steel, Add	27.74	
			For High Strength Low Alloy A588 Steel, Add	61.64	
			For Each Additional Top Copes >2, Add	2.30	
			For Structural Tees, WT, MT Or ST, Deduct	-96.10	
			For Skewed Or Sloped Connections, Add	36.99	
05 12 23 00-0223	LF		W36 x 170 A992/A36 Structural Beam Or Girder.....	292.17	72.76
			For Hot Dip Galvanizing, Add	59.54	
			For High Strength Low Alloy A572-50 Steel, Add	26.30	
			For High Strength Low Alloy A588 Steel, Add	58.43	
			For Each Additional Top Copes >2, Add	2.15	
			For Structural Tees, WT, MT Or ST, Deduct	-90.62	
			For Skewed Or Sloped Connections, Add	35.06	
05 12 23 00-0224	LF		W36 x 160 A992/A36 Structural Beam Or Girder.....	288.74	81.41
			For Hot Dip Galvanizing, Add	56.04	
			For High Strength Low Alloy A572-50 Steel, Add	25.99	
			For High Strength Low Alloy A588 Steel, Add	57.75	
			For Each Additional Top Copes >2, Add	2.02	
			For Structural Tees, WT, MT Or ST, Deduct	-88.04	
			For Skewed Or Sloped Connections, Add	34.65	
05 12 23 00-0225	LF		W36 x 150 A992/A36 Structural Beam Or Girder.....	277.58	80.82
			For Hot Dip Galvanizing, Add	53.10	
			For High Strength Low Alloy A572-50 Steel, Add	24.98	
			For High Strength Low Alloy A588 Steel, Add	55.52	
			For Each Additional Top Copes >2, Add	1.91	
			For Structural Tees, WT, MT Or ST, Deduct	-84.22	
			For Skewed Or Sloped Connections, Add	33.31	
05 12 23 00-0226	LF		W36 x 135 A992/A36 Structural Beam Or Girder.....	261.95	80.12
			For Hot Dip Galvanizing, Add	49.00	
			For High Strength Low Alloy A572-50 Steel, Add	23.58	
			For High Strength Low Alloy A588 Steel, Add	52.39	
			For Each Additional Top Copes >2, Add	1.77	
			For Structural Tees, WT, MT Or ST, Deduct	-78.87	
			For Skewed Or Sloped Connections, Add	31.43	
05 12 23 00-0227	LF		W33 x 241 A992/A36 Structural Beam Or Girder.....	376.36	78.86
			For Hot Dip Galvanizing, Add	81.10	
			For High Strength Low Alloy A572-50 Steel, Add	33.87	
			For High Strength Low Alloy A588 Steel, Add	75.27	
			For Each Additional Top Copes >2, Add	2.92	
			For Structural Tees, WT, MT Or ST, Deduct	-119.11	
			For Skewed Or Sloped Connections, Add	45.16	
05 12 23 00-0228	LF		W33 x 221 A992/A36 Structural Beam Or Girder.....	350.05	76.92
			For Hot Dip Galvanizing, Add	74.37	
			For High Strength Low Alloy A572-50 Steel, Add	31.50	
			For High Strength Low Alloy A588 Steel, Add	70.01	
			For Each Additional Top Copes >2, Add	2.68	
			For Structural Tees, WT, MT Or ST, Deduct	-110.21	
			For Skewed Or Sloped Connections, Add	42.01	
05 12 23 00-0229	LF		W33 x 201 A992/A36 Structural Beam Or Girder.....	332.89	83.52
			For Hot Dip Galvanizing, Add	67.64	
			For High Strength Low Alloy A572-50 Steel, Add	29.96	
			For High Strength Low Alloy A588 Steel, Add	66.58	
			For Each Additional Top Copes >2, Add	2.44	
			For Structural Tees, WT, MT Or ST, Deduct	-103.14	
			For Skewed Or Sloped Connections, Add	39.95	
05 12 23 00-0230	LF		W33 x 170 A992/A36 Structural Beam Or Girder.....	300.73	82.00
			For Hot Dip Galvanizing, Add	59.20	
			For High Strength Low Alloy A572-50 Steel, Add	27.07	
			For High Strength Low Alloy A588 Steel, Add	60.15	
			For Each Additional Top Copes >2, Add	2.13	
			For Structural Tees, WT, MT Or ST, Deduct	-92.15	
			For Skewed Or Sloped Connections, Add	36.09	
05 12 23 00-0231	LF		W33 x 152 A992/A36 Structural Beam Or Girder.....	274.58	72.53
			For Hot Dip Galvanizing, Add	54.73	
			For High Strength Low Alloy A572-50 Steel, Add	24.71	
			For High Strength Low Alloy A588 Steel, Add	54.92	
			For Each Additional Top Copes >2, Add	1.97	
			For Structural Tees, WT, MT Or ST, Deduct	-84.50	
			For Skewed Or Sloped Connections, Add	32.95	
05 12 23 00-0232	LF		W33 x 141 A992/A36 Structural Beam Or Girder.....	268.69	80.35
			For Hot Dip Galvanizing, Add	50.77	
			For High Strength Low Alloy A572-50 Steel, Add	24.18	
			For High Strength Low Alloy A588 Steel, Add	53.74	
			For Each Additional Top Copes >2, Add	1.83	
			For Structural Tees, WT, MT Or ST, Deduct	-81.18	
			For Skewed Or Sloped Connections, Add	32.24	
05 12 23 00-0233	LF		W33 x 130 A992/A36 Structural Beam Or Girder.....	256.05	79.77
			For Hot Dip Galvanizing, Add	47.45	
			For High Strength Low Alloy A572-50 Steel, Add	23.04	
			For High Strength Low Alloy A588 Steel, Add	51.21	
			For Each Additional Top Copes >2, Add	1.71	
			For Structural Tees, WT, MT Or ST, Deduct	-76.86	
			For Skewed Or Sloped Connections, Add	30.73	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0234 LF W33 x 118 A992/A36 Structural Beam Or Girder	241.36	79.07
For Hot Dip Galvanizing, Add	43.57	
For High Strength Low Alloy A572-50 Steel, Add	21.72	
For High Strength Low Alloy A588 Steel, Add	48.27	
For Each Additional Top Copes >2, Add	1.57	
For Structural Tees, WT, MT Or ST, Deduct	-71.83	
For Skewed Or Sloped Connections, Add	28.96	
05 12 23 00-0235 LF W30 x 211 A992/A36 Structural Beam Or Girder	336.46	76.77
For Hot Dip Galvanizing, Add	70.64	
For High Strength Low Alloy A572-50 Steel, Add	30.28	
For High Strength Low Alloy A588 Steel, Add	67.29	
For Each Additional Top Copes >2, Add	2.55	
For Structural Tees, WT, MT Or ST, Deduct	-105.48	
For Skewed Or Sloped Connections, Add	40.38	
05 12 23 00-0236 LF W30 x 191 A992/A36 Structural Beam Or Girder	319.01	82.93
For Hot Dip Galvanizing, Add	63.95	
For High Strength Low Alloy A572-50 Steel, Add	28.71	
For High Strength Low Alloy A588 Steel, Add	63.80	
For Each Additional Top Copes >2, Add	2.30	
For Structural Tees, WT, MT Or ST, Deduct	-98.37	
For Skewed Or Sloped Connections, Add	38.28	
05 12 23 00-0237 LF W30 x 173 A992/A36 Structural Beam Or Girder	293.27	73.27
For Hot Dip Galvanizing, Add	59.70	
For High Strength Low Alloy A572-50 Steel, Add	26.39	
For High Strength Low Alloy A588 Steel, Add	58.65	
For Each Additional Top Copes >2, Add	2.15	
For Structural Tees, WT, MT Or ST, Deduct	-90.92	
For Skewed Or Sloped Connections, Add	35.19	
05 12 23 00-0238 LF W30 x 154 A992/A36 Structural Beam Or Girder	277.82	80.93
For Hot Dip Galvanizing, Add	53.14	
For High Strength Low Alloy A572-50 Steel, Add	25.00	
For High Strength Low Alloy A588 Steel, Add	55.56	
For Each Additional Top Copes >2, Add	1.91	
For Structural Tees, WT, MT Or ST, Deduct	-84.29	
For Skewed Or Sloped Connections, Add	33.34	
05 12 23 00-0239 LF W30 x 132 A992/A36 Structural Beam Or Girder	248.98	70.69
For Hot Dip Galvanizing, Add	48.17	
For High Strength Low Alloy A572-50 Steel, Add	22.41	
For High Strength Low Alloy A588 Steel, Add	49.80	
For Each Additional Top Copes >2, Add	1.74	
For Structural Tees, WT, MT Or ST, Deduct	-75.83	
For Skewed Or Sloped Connections, Add	29.88	
05 12 23 00-0240 LF W30 x 124 A992/A36 Structural Beam Or Girder	238.42	70.65
For Hot Dip Galvanizing, Add	45.25	
For High Strength Low Alloy A572-50 Steel, Add	21.46	
For High Strength Low Alloy A588 Steel, Add	47.68	
For Each Additional Top Copes >2, Add	1.63	
For Structural Tees, WT, MT Or ST, Deduct	-72.14	
For Skewed Or Sloped Connections, Add	28.61	
05 12 23 00-0241 LF W30 x 116 A992/A36 Structural Beam Or Girder	236.77	78.95
For Hot Dip Galvanizing, Add	42.33	
For High Strength Low Alloy A572-50 Steel, Add	21.31	
For High Strength Low Alloy A588 Steel, Add	47.35	
For Each Additional Top Copes >2, Add	1.53	
For Structural Tees, WT, MT Or ST, Deduct	-70.24	
For Skewed Or Sloped Connections, Add	28.41	
05 12 23 00-0242 LF W30 x 108 A992/A36 Structural Beam Or Girder	218.55	71.08
For Hot Dip Galvanizing, Add	39.62	
For High Strength Low Alloy A572-50 Steel, Add	19.67	
For High Strength Low Alloy A588 Steel, Add	43.71	
For Each Additional Top Copes >2, Add	1.43	
For Structural Tees, WT, MT Or ST, Deduct	-65.13	
For Skewed Or Sloped Connections, Add	26.23	
05 12 23 00-0243 LF W30 x 99 A992/A36 Structural Beam Or Girder	209.53	70.73
For Hot Dip Galvanizing, Add	37.25	
For High Strength Low Alloy A572-50 Steel, Add	18.86	
For High Strength Low Alloy A588 Steel, Add	41.91	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-62.04	
For Skewed Or Sloped Connections, Add	25.14	
05 12 23 00-0244 LF W27 x 178 A992/A36 Structural Beam Or Girder	327.16	85.79
For Hot Dip Galvanizing, Add	65.39	
For High Strength Low Alloy A572-50 Steel, Add	29.44	
For High Strength Low Alloy A588 Steel, Add	65.43	
For Each Additional Top Copes >2, Add	2.36	
For Structural Tees, WT, MT Or ST, Deduct	-100.78	
For Skewed Or Sloped Connections, Add	39.26	
05 12 23 00-0245 LF W27 x 161 A992/A36 Structural Beam Or Girder	301.20	82.55
For Hot Dip Galvanizing, Add	59.15	
For High Strength Low Alloy A572-50 Steel, Add	27.11	
For High Strength Low Alloy A588 Steel, Add	60.24	
For Each Additional Top Copes >2, Add	2.13	
For Structural Tees, WT, MT Or ST, Deduct	-92.21	
For Skewed Or Sloped Connections, Add	36.14	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0246	LF		W27 x 146 A992/A36 Structural Beam Or Girder.....	278.23	79.63
			For Hot Dip Galvanizing, Add	53.64	
			For High Strength Low Alloy A572-50 Steel, Add	25.04	
			For High Strength Low Alloy A588 Steel, Add	55.65	
			For Each Additional Top Copes >2, Add	1.93	
			For Structural Tees, WT, MT Or ST, Deduct	-84.64	
			For Skewed Or Sloped Connections, Add	33.39	
05 12 23 00-0247	LF		W27 x 114 A992/A36 Structural Beam Or Girder.....	221.48	66.15
			For Hot Dip Galvanizing, Add	41.88	
			For High Strength Low Alloy A572-50 Steel, Add	19.93	
			For High Strength Low Alloy A588 Steel, Add	44.30	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-66.93	
			For Skewed Or Sloped Connections, Add	26.58	
05 12 23 00-0248	LF		W27 x 102 A992/A36 Structural Beam Or Girder.....	210.46	70.73
			For Hot Dip Galvanizing, Add	37.47	
			For High Strength Low Alloy A572-50 Steel, Add	18.94	
			For High Strength Low Alloy A588 Steel, Add	42.09	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-62.35	
			For Skewed Or Sloped Connections, Add	25.26	
05 12 23 00-0249	LF		W27 x 94 A992/A36 Structural Beam Or Girder	201.99	70.27
			For Hot Dip Galvanizing, Add	35.25	
			For High Strength Low Alloy A572-50 Steel, Add	18.18	
			For High Strength Low Alloy A588 Steel, Add	40.40	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-59.45	
			For Skewed Or Sloped Connections, Add	24.24	
05 12 23 00-0250	LF		W27 x 84 A992/A36 Structural Beam Or Girder	191.64	69.80
			For Hot Dip Galvanizing, Add	32.54	
			For High Strength Low Alloy A572-50 Steel, Add	17.25	
			For High Strength Low Alloy A588 Steel, Add	38.33	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-55.92	
			For Skewed Or Sloped Connections, Add	23.00	
05 12 23 00-0251	LF		W24 x 162 A992/A36 Structural Beam Or Girder.....	290.01	79.15
			For Hot Dip Galvanizing, Add	57.05	
			For High Strength Low Alloy A572-50 Steel, Add	26.10	
			For High Strength Low Alloy A588 Steel, Add	58.00	
			For Each Additional Top Copes >2, Add	2.06	
			For Structural Tees, WT, MT Or ST, Deduct	-88.84	
			For Skewed Or Sloped Connections, Add	34.80	
05 12 23 00-0252	LF		W24 x 146 A992/A36 Structural Beam Or Girder.....	266.22	75.87
			For Hot Dip Galvanizing, Add	51.42	
			For High Strength Low Alloy A572-50 Steel, Add	23.96	
			For High Strength Low Alloy A588 Steel, Add	53.24	
			For Each Additional Top Copes >2, Add	1.85	
			For Structural Tees, WT, MT Or ST, Deduct	-81.04	
			For Skewed Or Sloped Connections, Add	31.95	
05 12 23 00-0253	LF		W24 x 131 A992/A36 Structural Beam Or Girder.....	243.50	72.43
			For Hot Dip Galvanizing, Add	46.13	
			For High Strength Low Alloy A572-50 Steel, Add	21.92	
			For High Strength Low Alloy A588 Steel, Add	48.70	
			For Each Additional Top Copes >2, Add	1.66	
			For Structural Tees, WT, MT Or ST, Deduct	-73.64	
			For Skewed Or Sloped Connections, Add	29.22	
05 12 23 00-0254	LF		W24 x 117 A992/A36 Structural Beam Or Girder.....	221.87	68.81
			For Hot Dip Galvanizing, Add	41.20	
			For High Strength Low Alloy A572-50 Steel, Add	19.97	
			For High Strength Low Alloy A588 Steel, Add	44.37	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-66.65	
			For Skewed Or Sloped Connections, Add	26.62	
05 12 23 00-0255	LF		W24 x 104 A992/A36 Structural Beam Or Girder.....	201.39	65.07
			For Hot Dip Galvanizing, Add	36.62	
			For High Strength Low Alloy A572-50 Steel, Add	18.13	
			For High Strength Low Alloy A588 Steel, Add	40.28	
			For Each Additional Top Copes >2, Add	1.32	
			For Structural Tees, WT, MT Or ST, Deduct	-60.08	
			For Skewed Or Sloped Connections, Add	24.17	
05 12 23 00-0256	LF		W24 x 94 A992/A36 Structural Beam Or Girder	194.25	70.27
			For Hot Dip Galvanizing, Add	33.10	
			For High Strength Low Alloy A572-50 Steel, Add	17.48	
			For High Strength Low Alloy A588 Steel, Add	38.85	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-56.74	
			For Skewed Or Sloped Connections, Add	23.31	
05 12 23 00-0257	LF		W24 x 84 A992/A36 Structural Beam Or Girder	176.71	62.29
			For Hot Dip Galvanizing, Add	30.58	
			For High Strength Low Alloy A572-50 Steel, Add	15.90	
			For High Strength Low Alloy A588 Steel, Add	35.34	
			For Each Additional Top Copes >2, Add	1.10	
			For Structural Tees, WT, MT Or ST, Deduct	-51.87	
			For Skewed Or Sloped Connections, Add	21.21	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0258 LF W24 x 76 A992/A36 Structural Beam Or Girder	168.78	61.82
For Hot Dip Galvanizing, Add	28.51	
For High Strength Low Alloy A572-50 Steel, Add	15.19	
For High Strength Low Alloy A588 Steel, Add	33.76	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-49.17	
For Skewed Or Sloped Connections, Add	20.25	
05 12 23 00-0259 LF W24 x 68 A992/A36 Structural Beam Or Girder	158.82	61.47
For Hot Dip Galvanizing, Add	25.87	
For High Strength Low Alloy A572-50 Steel, Add	14.29	
For High Strength Low Alloy A588 Steel, Add	31.76	
For Each Additional Top Copes >2, Add	0.93	
For Structural Tees, WT, MT Or ST, Deduct	-45.75	
For Skewed Or Sloped Connections, Add	19.06	
05 12 23 00-0260 LF W24 x 62 A992/A36 Structural Beam Or Girder	153.58	61.12
For Hot Dip Galvanizing, Add	24.52	
For High Strength Low Alloy A572-50 Steel, Add	13.82	
For High Strength Low Alloy A588 Steel, Add	30.72	
For Each Additional Top Copes >2, Add	0.88	
For Structural Tees, WT, MT Or ST, Deduct	-43.97	
For Skewed Or Sloped Connections, Add	18.43	
05 12 23 00-0261 LF W24 x 55 A992/A36 Structural Beam Or Girder	146.42	60.88
For Hot Dip Galvanizing, Add	22.63	
For High Strength Low Alloy A572-50 Steel, Add	13.18	
For High Strength Low Alloy A588 Steel, Add	29.28	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-41.52	
For Skewed Or Sloped Connections, Add	17.57	
05 12 23 00-0262 LF W21 x 147 A992/A36 Structural Beam Or Girder	252.63	65.08
For Hot Dip Galvanizing, Add	50.84	
For High Strength Low Alloy A572-50 Steel, Add	22.74	
For High Strength Low Alloy A588 Steel, Add	50.53	
For Each Additional Top Copes >2, Add	1.83	
For Structural Tees, WT, MT Or ST, Deduct	-78.01	
For Skewed Or Sloped Connections, Add	30.32	
05 12 23 00-0263 LF W21 x 132 A992/A36 Structural Beam Or Girder	230.83	62.18
For Hot Dip Galvanizing, Add	45.65	
For High Strength Low Alloy A572-50 Steel, Add	20.77	
For High Strength Low Alloy A588 Steel, Add	46.17	
For Each Additional Top Copes >2, Add	1.65	
For Structural Tees, WT, MT Or ST, Deduct	-70.84	
For Skewed Or Sloped Connections, Add	27.70	
05 12 23 00-0264 LF W21 x 122 A992/A36 Structural Beam Or Girder	217.25	61.14
For Hot Dip Galvanizing, Add	42.19	
For High Strength Low Alloy A572-50 Steel, Add	19.55	
For High Strength Low Alloy A588 Steel, Add	43.45	
For Each Additional Top Copes >2, Add	1.52	
For Structural Tees, WT, MT Or ST, Deduct	-66.26	
For Skewed Or Sloped Connections, Add	26.07	
05 12 23 00-0265 LF W21 x 111 A992/A36 Structural Beam Or Girder	201.46	59.18
For Hot Dip Galvanizing, Add	38.39	
For High Strength Low Alloy A572-50 Steel, Add	18.13	
For High Strength Low Alloy A588 Steel, Add	40.29	
For Each Additional Top Copes >2, Add	1.38	
For Structural Tees, WT, MT Or ST, Deduct	-61.04	
For Skewed Or Sloped Connections, Add	24.18	
05 12 23 00-0266 LF W21 x 101 A992/A36 Structural Beam Or Girder	186.96	57.28
For Hot Dip Galvanizing, Add	34.93	
For High Strength Low Alloy A572-50 Steel, Add	16.83	
For High Strength Low Alloy A588 Steel, Add	37.39	
For Each Additional Top Copes >2, Add	1.26	
For Structural Tees, WT, MT Or ST, Deduct	-56.27	
For Skewed Or Sloped Connections, Add	22.44	
05 12 23 00-0267 LF W21 x 93 A992/A36 Structural Beam Or Girder	183.11	63.00
For Hot Dip Galvanizing, Add	32.16	
For High Strength Low Alloy A572-50 Steel, Add	16.48	
For High Strength Low Alloy A588 Steel, Add	36.62	
For Each Additional Top Copes >2, Add	1.16	
For Structural Tees, WT, MT Or ST, Deduct	-54.01	
For Skewed Or Sloped Connections, Add	21.97	
05 12 23 00-0268 LF W21 x 83 A992/A36 Structural Beam Or Girder	173.72	62.29
For Hot Dip Galvanizing, Add	29.75	
For High Strength Low Alloy A572-50 Steel, Add	15.63	
For High Strength Low Alloy A588 Steel, Add	34.74	
For Each Additional Top Copes >2, Add	1.07	
For Structural Tees, WT, MT Or ST, Deduct	-50.83	
For Skewed Or Sloped Connections, Add	20.85	
05 12 23 00-0269 LF W21 x 73 A992/A36 Structural Beam Or Girder	162.29	61.82
For Hot Dip Galvanizing, Add	26.74	
For High Strength Low Alloy A572-50 Steel, Add	14.61	
For High Strength Low Alloy A588 Steel, Add	32.46	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-46.91	
For Skewed Or Sloped Connections, Add	19.47	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0270	LF		W21 x 68 A992/A36 Structural Beam Or Girder	156.51	61.47
			For Hot Dip Galvanizing, Add	25.23	
			For High Strength Low Alloy A572-50 Steel, Add	14.09	
			For High Strength Low Alloy A588 Steel, Add	31.30	
			For Each Additional Top Copes >2, Add	0.91	
			For Structural Tees, WT, MT Or ST, Deduct	-44.94	
			For Skewed Or Sloped Connections, Add	18.78	
05 12 23 00-0271	LF		W21 x 62 A992/A36 Structural Beam Or Girder	151.27	61.12
			For Hot Dip Galvanizing, Add	23.88	
			For High Strength Low Alloy A572-50 Steel, Add	13.61	
			For High Strength Low Alloy A588 Steel, Add	30.25	
			For Each Additional Top Copes >2, Add	0.86	
			For Structural Tees, WT, MT Or ST, Deduct	-43.16	
			For Skewed Or Sloped Connections, Add	18.15	
05 12 23 00-0272	LF		W21 x 57 A992/A36 Structural Beam Or Girder	146.55	61.00
			For Hot Dip Galvanizing, Add	22.63	
			For High Strength Low Alloy A572-50 Steel, Add	13.19	
			For High Strength Low Alloy A588 Steel, Add	29.31	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-41.54	
			For Skewed Or Sloped Connections, Add	17.59	
05 12 23 00-0273	LF		W21 x 50 A992/A36 Structural Beam Or Girder	129.69	52.90
			For Hot Dip Galvanizing, Add	20.30	
			For High Strength Low Alloy A572-50 Steel, Add	11.67	
			For High Strength Low Alloy A588 Steel, Add	25.94	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-36.91	
			For Skewed Or Sloped Connections, Add	15.56	
05 12 23 00-0274	LF		W21 x 44 A992/A36 Structural Beam Or Girder	124.18	52.67
			For Hot Dip Galvanizing, Add	18.87	
			For High Strength Low Alloy A572-50 Steel, Add	11.18	
			For High Strength Low Alloy A588 Steel, Add	24.84	
			For Each Additional Top Copes >2, Add	0.68	
			For Structural Tees, WT, MT Or ST, Deduct	-35.03	
			For Skewed Or Sloped Connections, Add	14.90	
05 12 23 00-0275	LF		W18 x 119 A992/A36 Structural Beam Or Girder.....	211.67	60.93
			For Hot Dip Galvanizing, Add	40.70	
			For High Strength Low Alloy A572-50 Steel, Add	19.05	
			For High Strength Low Alloy A588 Steel, Add	42.33	
			For Each Additional Top Copes >2, Add	1.47	
			For Structural Tees, WT, MT Or ST, Deduct	-64.34	
			For Skewed Or Sloped Connections, Add	25.40	
05 12 23 00-0276	LF		W18 x 106 A992/A36 Structural Beam Or Girder.....	192.24	57.74
			For Hot Dip Galvanizing, Add	36.26	
			For High Strength Low Alloy A572-50 Steel, Add	17.30	
			For High Strength Low Alloy A588 Steel, Add	38.45	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-58.05	
			For Skewed Or Sloped Connections, Add	23.07	
05 12 23 00-0277	LF		W18 x 97 A992/A36 Structural Beam Or Girder	186.90	63.00
			For Hot Dip Galvanizing, Add	33.18	
			For High Strength Low Alloy A572-50 Steel, Add	16.82	
			For High Strength Low Alloy A588 Steel, Add	37.38	
			For Each Additional Top Copes >2, Add	1.20	
			For Structural Tees, WT, MT Or ST, Deduct	-55.31	
			For Skewed Or Sloped Connections, Add	22.43	
05 12 23 00-0278	LF		W18 x 86 A992/A36 Structural Beam Or Girder	176.14	62.40
			For Hot Dip Galvanizing, Add	30.39	
			For High Strength Low Alloy A572-50 Steel, Add	15.85	
			For High Strength Low Alloy A588 Steel, Add	35.23	
			For Each Additional Top Copes >2, Add	1.10	
			For Structural Tees, WT, MT Or ST, Deduct	-51.66	
			For Skewed Or Sloped Connections, Add	21.14	
05 12 23 00-0279	LF		W18 x 76 A992/A36 Structural Beam Or Girder	166.47	61.82
			For Hot Dip Galvanizing, Add	27.87	
			For High Strength Low Alloy A572-50 Steel, Add	14.98	
			For High Strength Low Alloy A588 Steel, Add	33.29	
			For Each Additional Top Copes >2, Add	1.00	
			For Structural Tees, WT, MT Or ST, Deduct	-48.36	
			For Skewed Or Sloped Connections, Add	19.98	
05 12 23 00-0280	LF		W18 x 71 A992/A36 Structural Beam Or Girder	159.45	61.70
			For Hot Dip Galvanizing, Add	25.99	
			For High Strength Low Alloy A572-50 Steel, Add	14.35	
			For High Strength Low Alloy A588 Steel, Add	31.89	
			For Each Additional Top Copes >2, Add	0.94	
			For Structural Tees, WT, MT Or ST, Deduct	-45.94	
			For Skewed Or Sloped Connections, Add	19.13	
05 12 23 00-0281	LF		W18 x 65 A992/A36 Structural Beam Or Girder	152.59	61.47
			For Hot Dip Galvanizing, Add	24.18	
			For High Strength Low Alloy A572-50 Steel, Add	13.73	
			For High Strength Low Alloy A588 Steel, Add	30.52	
			For Each Additional Top Copes >2, Add	0.87	
			For Structural Tees, WT, MT Or ST, Deduct	-43.59	
			For Skewed Or Sloped Connections, Add	18.31	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0282	LF		W18 x 60 A992/A36 Structural Beam Or Girder	146.39	61.00
			<i>For Hot Dip Galvanizing, Add</i>	22.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.18	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.28	
			<i>For Each Additional Top Copes >2, Add</i>	0.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.47	
			<i>For Skewed Or Sloped Connections, Add</i>	17.57	
05 12 23 00-0283	LF		W18 x 55 A992/A36 Structural Beam Or Girder	140.18	60.88
			<i>For Hot Dip Galvanizing, Add</i>	20.90	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.62	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.04	
			<i>For Each Additional Top Copes >2, Add</i>	0.75	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.33	
			<i>For Skewed Or Sloped Connections, Add</i>	16.82	
05 12 23 00-0284	LF		W18 x 50 A992/A36 Structural Beam Or Girder	125.89	52.90
			<i>For Hot Dip Galvanizing, Add</i>	19.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.33	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.18	
			<i>For Each Additional Top Copes >2, Add</i>	0.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.58	
			<i>For Skewed Or Sloped Connections, Add</i>	15.11	
05 12 23 00-0285	LF		W18 x 46 A992/A36 Structural Beam Or Girder	121.05	52.79
			<i>For Hot Dip Galvanizing, Add</i>	17.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.89	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.21	
			<i>For Each Additional Top Copes >2, Add</i>	0.65	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.92	
			<i>For Skewed Or Sloped Connections, Add</i>	14.53	
05 12 23 00-0286	LF		W18 x 40 A992/A36 Structural Beam Or Girder	105.63	45.05
			<i>For Hot Dip Galvanizing, Add</i>	15.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.51	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.13	
			<i>For Each Additional Top Copes >2, Add</i>	0.58	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-29.76	
			<i>For Skewed Or Sloped Connections, Add</i>	12.68	
05 12 23 00-0287	LF		W18 x 35 A992/A36 Structural Beam Or Girder	99.57	44.93
			<i>For Hot Dip Galvanizing, Add</i>	14.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	19.91	
			<i>For Each Additional Top Copes >2, Add</i>	0.52	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-27.67	
			<i>For Skewed Or Sloped Connections, Add</i>	11.95	
05 12 23 00-0288	LF		W16 x 100 A992/A36 Structural Beam Or Girder	172.15	40.94
			<i>For Hot Dip Galvanizing, Add</i>	35.66	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.49	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.43	
			<i>For Each Additional Top Copes >2, Add</i>	1.29	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-53.71	
			<i>For Skewed Or Sloped Connections, Add</i>	20.66	
05 12 23 00-0289	LF		W16 x 89 A992/A36 Structural Beam Or Girder	158.42	40.24
			<i>For Hot Dip Galvanizing, Add</i>	32.05	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.26	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.68	
			<i>For Each Additional Top Copes >2, Add</i>	1.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-49.01	
			<i>For Skewed Or Sloped Connections, Add</i>	19.01	
05 12 23 00-0290	LF		W16 x 77 A992/A36 Structural Beam Or Girder	143.73	39.76
			<i>For Hot Dip Galvanizing, Add</i>	28.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.75	
			<i>For Each Additional Top Copes >2, Add</i>	1.01	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.95	
			<i>For Skewed Or Sloped Connections, Add</i>	17.25	
05 12 23 00-0291	LF		W16 x 67 A992/A36 Structural Beam Or Girder	131.20	39.18
			<i>For Hot Dip Galvanizing, Add</i>	24.82	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.24	
			<i>For Each Additional Top Copes >2, Add</i>	0.89	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.66	
			<i>For Skewed Or Sloped Connections, Add</i>	15.74	
05 12 23 00-0292	LF		W16 x 57 A992/A36 Structural Beam Or Girder	118.80	38.59
			<i>For Hot Dip Galvanizing, Add</i>	21.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.69	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.76	
			<i>For Each Additional Top Copes >2, Add</i>	0.78	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.40	
			<i>For Skewed Or Sloped Connections, Add</i>	14.26	
05 12 23 00-0293	LF		W16 x 50 A992/A36 Structural Beam Or Girder	110.17	38.24
			<i>For Hot Dip Galvanizing, Add</i>	19.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.92	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.03	
			<i>For Each Additional Top Copes >2, Add</i>	0.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-32.44	
			<i>For Skewed Or Sloped Connections, Add</i>	13.22	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294	LF		W16 x 45 A992/A36 Structural Beam Or Girder	104.10	38.01
			For Hot Dip Galvanizing, Add	17.62	
			For High Strength Low Alloy A572-50 Steel, Add	9.37	
			For High Strength Low Alloy A588 Steel, Add	20.82	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-30.35	
			For Skewed Or Sloped Connections, Add	12.49	
05 12 23 00-0295	LF		W16 x 40 A992/A36 Structural Beam Or Girder	97.78	37.65
			For Hot Dip Galvanizing, Add	15.97	
			For High Strength Low Alloy A572-50 Steel, Add	8.80	
			For High Strength Low Alloy A588 Steel, Add	19.56	
			For Each Additional Top Copes >2, Add	0.58	
			For Structural Tees, WT, MT Or ST, Deduct	-28.19	
			For Skewed Or Sloped Connections, Add	11.73	
05 12 23 00-0296	LF		W16 x 36 A992/A36 Structural Beam Or Girder	92.81	37.42
			For Hot Dip Galvanizing, Add	14.69	
			For High Strength Low Alloy A572-50 Steel, Add	8.35	
			For High Strength Low Alloy A588 Steel, Add	18.56	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-26.50	
			For Skewed Or Sloped Connections, Add	11.14	
05 12 23 00-0297	LF		W16 x 31 A992/A36 Structural Beam Or Girder	78.75	29.79
			For Hot Dip Galvanizing, Add	13.03	
			For High Strength Low Alloy A572-50 Steel, Add	7.09	
			For High Strength Low Alloy A588 Steel, Add	15.75	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-22.79	
			For Skewed Or Sloped Connections, Add	9.45	
05 12 23 00-0298	LF		W16 x 26 A992/A36 Structural Beam Or Girder	70.81	29.44
			For Hot Dip Galvanizing, Add	10.93	
			For High Strength Low Alloy A572-50 Steel, Add	6.37	
			For High Strength Low Alloy A588 Steel, Add	14.16	
			For Each Additional Top Copes >2, Add	0.39	
			For Structural Tees, WT, MT Or ST, Deduct	-20.07	
			For Skewed Or Sloped Connections, Add	8.50	
05 12 23 00-0299	LF		W14 x 99 A992/A36 Structural Beam Or Girder	163.08	33.55
			For Hot Dip Galvanizing, Add	35.33	
			For High Strength Low Alloy A572-50 Steel, Add	14.68	
			For High Strength Low Alloy A588 Steel, Add	32.62	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-51.71	
			For Skewed Or Sloped Connections, Add	19.57	
05 12 23 00-0300	LF		W14 x 90 A992/A36 Structural Beam Or Girder	151.89	32.96
			For Hot Dip Galvanizing, Add	32.39	
			For High Strength Low Alloy A572-50 Steel, Add	13.67	
			For High Strength Low Alloy A588 Steel, Add	30.38	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-47.88	
			For Skewed Or Sloped Connections, Add	18.23	
05 12 23 00-0301	LF		W14 x 82 A992/A36 Structural Beam Or Girder	141.93	32.61
			For Hot Dip Galvanizing, Add	29.75	
			For High Strength Low Alloy A572-50 Steel, Add	12.77	
			For High Strength Low Alloy A588 Steel, Add	28.39	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-44.47	
			For Skewed Or Sloped Connections, Add	17.03	
05 12 23 00-0302	LF		W14 x 74 A992/A36 Structural Beam Or Girder	131.97	32.14
			For Hot Dip Galvanizing, Add	27.11	
			For High Strength Low Alloy A572-50 Steel, Add	11.88	
			For High Strength Low Alloy A588 Steel, Add	26.39	
			For Each Additional Top Copes >2, Add	0.98	
			For Structural Tees, WT, MT Or ST, Deduct	-41.05	
			For Skewed Or Sloped Connections, Add	15.84	
05 12 23 00-0303	LF		W14 x 68 A992/A36 Structural Beam Or Girder	124.56	31.79
			For Hot Dip Galvanizing, Add	25.16	
			For High Strength Low Alloy A572-50 Steel, Add	11.21	
			For High Strength Low Alloy A588 Steel, Add	24.91	
			For Each Additional Top Copes >2, Add	0.91	
			For Structural Tees, WT, MT Or ST, Deduct	-38.51	
			For Skewed Or Sloped Connections, Add	14.95	
05 12 23 00-0304	LF		W14 x 61 A992/A36 Structural Beam Or Girder	115.93	31.44
			For Hot Dip Galvanizing, Add	22.86	
			For High Strength Low Alloy A572-50 Steel, Add	10.43	
			For High Strength Low Alloy A588 Steel, Add	23.19	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-35.54	
			For Skewed Or Sloped Connections, Add	13.91	
05 12 23 00-0305	LF		W14 x 53 A992/A36 Structural Beam Or Girder	106.08	30.97
			For Hot Dip Galvanizing, Add	20.26	
			For High Strength Low Alloy A572-50 Steel, Add	9.55	
			For High Strength Low Alloy A588 Steel, Add	21.22	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-32.17	
			For Skewed Or Sloped Connections, Add	12.73	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0306 LF W14 x 48 A992/A36 Structural Beam Or Girder	99.76	30.61
For Hot Dip Galvanizing, Add	18.60	
For High Strength Low Alloy A572-50 Steel, Add	8.98	
For High Strength Low Alloy A588 Steel, Add	19.95	
For Each Additional Top Copes >2, Add	0.67	
For Structural Tees, WT, MT Or ST, Deduct	-30.01	
For Skewed Or Sloped Connections, Add	11.97	
05 12 23 00-0307 LF W14 x 43 A992/A36 Structural Beam Or Girder	93.56	30.50
For Hot Dip Galvanizing, Add	16.95	
For High Strength Low Alloy A572-50 Steel, Add	8.42	
For High Strength Low Alloy A588 Steel, Add	18.71	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-27.87	
For Skewed Or Sloped Connections, Add	11.23	
05 12 23 00-0308 LF W14 x 38 A992/A36 Structural Beam Or Girder	87.38	30.26
For Hot Dip Galvanizing, Add	15.33	
For High Strength Low Alloy A572-50 Steel, Add	7.86	
For High Strength Low Alloy A588 Steel, Add	17.48	
For Each Additional Top Copes >2, Add	0.55	
For Structural Tees, WT, MT Or ST, Deduct	-25.76	
For Skewed Or Sloped Connections, Add	10.49	
05 12 23 00-0309 LF W14 x 34 A992/A36 Structural Beam Or Girder	82.40	29.91
For Hot Dip Galvanizing, Add	14.01	
For High Strength Low Alloy A572-50 Steel, Add	7.42	
For High Strength Low Alloy A588 Steel, Add	16.48	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-24.05	
For Skewed Or Sloped Connections, Add	9.89	
05 12 23 00-0310 LF W14 x 30 A992/A36 Structural Beam Or Girder	77.41	29.79
For Hot Dip Galvanizing, Add	12.69	
For High Strength Low Alloy A572-50 Steel, Add	6.97	
For High Strength Low Alloy A588 Steel, Add	15.48	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-22.34	
For Skewed Or Sloped Connections, Add	9.29	
05 12 23 00-0311 LF W14 x 26 A992/A36 Structural Beam Or Girder	72.43	29.44
For Hot Dip Galvanizing, Add	11.37	
For High Strength Low Alloy A572-50 Steel, Add	6.52	
For High Strength Low Alloy A588 Steel, Add	14.49	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-20.63	
For Skewed Or Sloped Connections, Add	8.69	
05 12 23 00-0312 LF W14 x 22 A992/A36 Structural Beam Or Girder	67.58	29.33
For Hot Dip Galvanizing, Add	10.09	
For High Strength Low Alloy A572-50 Steel, Add	6.08	
For High Strength Low Alloy A588 Steel, Add	13.52	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-18.97	
For Skewed Or Sloped Connections, Add	8.11	
05 12 23 00-0313 LF W12 x 87 A992/A36 Structural Beam Or Girder	148.26	32.84
For Hot Dip Galvanizing, Add	31.41	
For High Strength Low Alloy A572-50 Steel, Add	13.34	
For High Strength Low Alloy A588 Steel, Add	29.65	
For Each Additional Top Copes >2, Add	1.13	
For Structural Tees, WT, MT Or ST, Deduct	-46.63	
For Skewed Or Sloped Connections, Add	17.79	
05 12 23 00-0314 LF W12 x 79 A992/A36 Structural Beam Or Girder	138.29	32.37
For Hot Dip Galvanizing, Add	28.77	
For High Strength Low Alloy A572-50 Steel, Add	12.45	
For High Strength Low Alloy A588 Steel, Add	27.66	
For Each Additional Top Copes >2, Add	1.04	
For Structural Tees, WT, MT Or ST, Deduct	-43.21	
For Skewed Or Sloped Connections, Add	16.59	
05 12 23 00-0315 LF W12 x 72 A992/A36 Structural Beam Or Girder	129.55	32.02
For Hot Dip Galvanizing, Add	26.48	
For High Strength Low Alloy A572-50 Steel, Add	11.66	
For High Strength Low Alloy A588 Steel, Add	25.91	
For Each Additional Top Copes >2, Add	0.95	
For Structural Tees, WT, MT Or ST, Deduct	-40.22	
For Skewed Or Sloped Connections, Add	15.55	
05 12 23 00-0316 LF W12 x 65 A992/A36 Structural Beam Or Girder	120.92	31.67
For Hot Dip Galvanizing, Add	24.18	
For High Strength Low Alloy A572-50 Steel, Add	10.88	
For High Strength Low Alloy A588 Steel, Add	24.18	
For Each Additional Top Copes >2, Add	0.87	
For Structural Tees, WT, MT Or ST, Deduct	-37.25	
For Skewed Or Sloped Connections, Add	14.51	
05 12 23 00-0317 LF W12 x 58 A992/A36 Structural Beam Or Girder	112.17	31.21
For Hot Dip Galvanizing, Add	21.88	
For High Strength Low Alloy A572-50 Steel, Add	10.10	
For High Strength Low Alloy A588 Steel, Add	22.43	
For Each Additional Top Copes >2, Add	0.79	
For Structural Tees, WT, MT Or ST, Deduct	-34.26	
For Skewed Or Sloped Connections, Add	13.46	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0318 LF W12 x 53 A992/A36 Structural Beam Or Girder	106.08	30.97
For Hot Dip Galvanizing, Add	20.26	
For High Strength Low Alloy A572-50 Steel, Add	9.55	
For High Strength Low Alloy A588 Steel, Add	21.22	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-32.17	
For Skewed Or Sloped Connections, Add	12.73	
05 12 23 00-0319 LF W12 x 50 A992/A36 Structural Beam Or Girder	102.19	30.86
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	9.20	
For High Strength Low Alloy A588 Steel, Add	20.44	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-30.84	
For Skewed Or Sloped Connections, Add	12.26	
05 12 23 00-0320 LF W12 x 45 A992/A36 Structural Beam Or Girder	96.12	30.61
For Hot Dip Galvanizing, Add	17.62	
For High Strength Low Alloy A572-50 Steel, Add	8.65	
For High Strength Low Alloy A588 Steel, Add	19.22	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-28.75	
For Skewed Or Sloped Connections, Add	11.53	
05 12 23 00-0321 LF W12 x 40 A992/A36 Structural Beam Or Girder	81.83	22.76
For Hot Dip Galvanizing, Add	15.97	
For High Strength Low Alloy A572-50 Steel, Add	7.36	
For High Strength Low Alloy A588 Steel, Add	16.37	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-25.00	
For Skewed Or Sloped Connections, Add	9.82	
05 12 23 00-0322 LF W12 x 35 A992/A36 Structural Beam Or Girder	75.76	22.64
For Hot Dip Galvanizing, Add	14.35	
For High Strength Low Alloy A572-50 Steel, Add	6.82	
For High Strength Low Alloy A588 Steel, Add	15.15	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.91	
For Skewed Or Sloped Connections, Add	9.09	
05 12 23 00-0323 LF W12 x 30 A992/A36 Structural Beam Or Girder	69.43	22.29
For Hot Dip Galvanizing, Add	12.69	
For High Strength Low Alloy A572-50 Steel, Add	6.25	
For High Strength Low Alloy A588 Steel, Add	13.89	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.75	
For Skewed Or Sloped Connections, Add	8.33	
05 12 23 00-0324 LF W12 x 26 A992/A36 Structural Beam Or Girder	64.45	22.06
For Hot Dip Galvanizing, Add	11.37	
For High Strength Low Alloy A572-50 Steel, Add	5.80	
For High Strength Low Alloy A588 Steel, Add	12.89	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.04	
For Skewed Or Sloped Connections, Add	7.73	
05 12 23 00-0325 LF W12 x 22 A992/A36 Structural Beam Or Girder	59.59	21.82
For Hot Dip Galvanizing, Add	10.09	
For High Strength Low Alloy A572-50 Steel, Add	5.36	
For High Strength Low Alloy A588 Steel, Add	11.92	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-17.37	
For Skewed Or Sloped Connections, Add	7.15	
05 12 23 00-0326 LF W12 x 19 A992/A36 Structural Beam Or Girder	55.82	21.71
For Hot Dip Galvanizing, Add	9.08	
For High Strength Low Alloy A572-50 Steel, Add	5.02	
For High Strength Low Alloy A588 Steel, Add	11.16	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-16.07	
For Skewed Or Sloped Connections, Add	6.70	
05 12 23 00-0327 LF W12 x 16 A992/A36 Structural Beam Or Girder	52.05	21.35
For Hot Dip Galvanizing, Add	8.10	
For High Strength Low Alloy A572-50 Steel, Add	4.68	
For High Strength Low Alloy A588 Steel, Add	10.41	
For Each Additional Top Copes >2, Add	0.29	
For Structural Tees, WT, MT Or ST, Deduct	-14.79	
For Skewed Or Sloped Connections, Add	6.25	
05 12 23 00-0328 LF W12 x 14 A992/A36 Structural Beam Or Girder	49.63	21.35
For Hot Dip Galvanizing, Add	7.46	
For High Strength Low Alloy A572-50 Steel, Add	4.47	
For High Strength Low Alloy A588 Steel, Add	9.93	
For Each Additional Top Copes >2, Add	0.27	
For Structural Tees, WT, MT Or ST, Deduct	-13.96	
For Skewed Or Sloped Connections, Add	5.96	
05 12 23 00-0329 LF W10 x 68 A992/A36 Structural Beam Or Girder	116.97	24.52
For Hot Dip Galvanizing, Add	25.23	
For High Strength Low Alloy A572-50 Steel, Add	10.53	
For High Strength Low Alloy A588 Steel, Add	23.39	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-37.03	
For Skewed Or Sloped Connections, Add	14.04	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0330 LF W10 x 60 A992/A36 Structural Beam Or Girder	107.13	24.05
For Hot Dip Galvanizing, Add	22.63	
For High Strength Low Alloy A572-50 Steel, Add	9.64	
For High Strength Low Alloy A588 Steel, Add	21.43	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-33.66	
For Skewed Or Sloped Connections, Add	12.86	
05 12 23 00-0331 LF W10 x 54 A992/A36 Structural Beam Or Girder	99.59	23.57
For Hot Dip Galvanizing, Add	20.64	
For High Strength Low Alloy A572-50 Steel, Add	8.96	
For High Strength Low Alloy A588 Steel, Add	19.92	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-31.07	
For Skewed Or Sloped Connections, Add	11.95	
05 12 23 00-0332 LF W10 x 49 A992/A36 Structural Beam Or Girder	93.41	23.34
For Hot Dip Galvanizing, Add	19.02	
For High Strength Low Alloy A572-50 Steel, Add	8.41	
For High Strength Low Alloy A588 Steel, Add	18.68	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-28.96	
For Skewed Or Sloped Connections, Add	11.21	
05 12 23 00-0333 LF W10 x 45 A992/A36 Structural Beam Or Girder	88.43	23.22
For Hot Dip Galvanizing, Add	17.70	
For High Strength Low Alloy A572-50 Steel, Add	7.96	
For High Strength Low Alloy A588 Steel, Add	17.69	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-27.25	
For Skewed Or Sloped Connections, Add	10.61	
05 12 23 00-0334 LF W10 x 39 A992/A36 Structural Beam Or Girder	81.02	22.76
For Hot Dip Galvanizing, Add	15.74	
For High Strength Low Alloy A572-50 Steel, Add	7.29	
For High Strength Low Alloy A588 Steel, Add	16.20	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-24.71	
For Skewed Or Sloped Connections, Add	9.72	
05 12 23 00-0335 LF W10 x 33 A992/A36 Structural Beam Or Girder	73.59	22.41
For Hot Dip Galvanizing, Add	13.78	
For High Strength Low Alloy A572-50 Steel, Add	6.62	
For High Strength Low Alloy A588 Steel, Add	14.72	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-22.17	
For Skewed Or Sloped Connections, Add	8.83	
05 12 23 00-0336 LF W10 x 30 A992/A36 Structural Beam Or Girder	69.82	22.29
For Hot Dip Galvanizing, Add	12.77	
For High Strength Low Alloy A572-50 Steel, Add	6.28	
For High Strength Low Alloy A588 Steel, Add	13.96	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.87	
For Skewed Or Sloped Connections, Add	8.38	
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder	64.96	22.17
For Hot Dip Galvanizing, Add	11.49	
For High Strength Low Alloy A572-50 Steel, Add	5.85	
For High Strength Low Alloy A588 Steel, Add	12.99	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.20	
For Skewed Or Sloped Connections, Add	7.80	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder	59.86	21.82
For Hot Dip Galvanizing, Add	10.17	
For High Strength Low Alloy A572-50 Steel, Add	5.39	
For High Strength Low Alloy A588 Steel, Add	11.97	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-17.47	
For Skewed Or Sloped Connections, Add	7.18	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder	56.22	21.71
For Hot Dip Galvanizing, Add	9.19	
For High Strength Low Alloy A572-50 Steel, Add	5.06	
For High Strength Low Alloy A588 Steel, Add	11.24	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-16.21	
For Skewed Or Sloped Connections, Add	6.75	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder	53.66	21.58
For Hot Dip Galvanizing, Add	8.51	
For High Strength Low Alloy A572-50 Steel, Add	4.83	
For High Strength Low Alloy A588 Steel, Add	10.73	
For Each Additional Top Copes >2, Add	0.31	
For Structural Tees, WT, MT Or ST, Deduct	-15.33	
For Skewed Or Sloped Connections, Add	6.44	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder	51.23	21.35
For Hot Dip Galvanizing, Add	7.87	
For High Strength Low Alloy A572-50 Steel, Add	4.61	
For High Strength Low Alloy A588 Steel, Add	10.25	
For Each Additional Top Copes >2, Add	0.28	
For Structural Tees, WT, MT Or ST, Deduct	-14.50	
For Skewed Or Sloped Connections, Add	6.15	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder	47.60	21.35
For Hot Dip Galvanizing, Add	6.89	
For High Strength Low Alloy A572-50 Steel, Add	4.28	
For High Strength Low Alloy A588 Steel, Add	9.52	
For Each Additional Top Copes >2, Add	0.25	
For Structural Tees, WT, MT Or ST, Deduct	-13.25	
For Skewed Or Sloped Connections, Add	5.71	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder	76.03	22.64
For Hot Dip Galvanizing, Add	14.42	
For High Strength Low Alloy A572-50 Steel, Add	6.84	
For High Strength Low Alloy A588 Steel, Add	15.21	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-23.00	
For Skewed Or Sloped Connections, Add	9.12	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder	71.04	22.29
For Hot Dip Galvanizing, Add	13.11	
For High Strength Low Alloy A572-50 Steel, Add	6.39	
For High Strength Low Alloy A588 Steel, Add	14.21	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-21.29	
For Skewed Or Sloped Connections, Add	8.52	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder	66.11	21.00
For Hot Dip Galvanizing, Add	12.13	
For High Strength Low Alloy A572-50 Steel, Add	5.95	
For High Strength Low Alloy A588 Steel, Add	13.22	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-19.78	
For Skewed Or Sloped Connections, Add	7.93	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder	60.37	19.71
For Hot Dip Galvanizing, Add	10.93	
For High Strength Low Alloy A572-50 Steel, Add	5.43	
For High Strength Low Alloy A588 Steel, Add	12.07	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-17.98	
For Skewed Or Sloped Connections, Add	7.24	
05 12 23 00-0347 LF W8 x 21 A992/A36 Structural Beam Or Girder	56.19	18.30
For Hot Dip Galvanizing, Add	10.16	
For High Strength Low Alloy A572-50 Steel, Add	5.06	
For High Strength Low Alloy A588 Steel, Add	11.24	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-16.73	
For Skewed Or Sloped Connections, Add	6.74	
05 12 23 00-0348 LF W8 x 18 A992/A36 Structural Beam Or Girder	49.34	17.00
For Hot Dip Galvanizing, Add	8.65	
For High Strength Low Alloy A572-50 Steel, Add	4.44	
For High Strength Low Alloy A588 Steel, Add	9.87	
For Each Additional Top Copes >2, Add	0.31	
For Structural Tees, WT, MT Or ST, Deduct	-14.54	
For Skewed Or Sloped Connections, Add	5.92	
05 12 23 00-0349 LF W8 x 10 A992/A36 Structural Beam Or Girder	29.55	12.20
For Hot Dip Galvanizing, Add	4.62	
For High Strength Low Alloy A572-50 Steel, Add	2.66	
For High Strength Low Alloy A588 Steel, Add	5.91	
For Each Additional Top Copes >2, Add	0.17	
For Structural Tees, WT, MT Or ST, Deduct	-8.41	
For Skewed Or Sloped Connections, Add	3.55	
05 12 23 00-0350 LF W6 x 9 A992/A36 Structural Beam Or Girder	26.98	9.97
For Hot Dip Galvanizing, Add	4.56	
For High Strength Low Alloy A572-50 Steel, Add	2.43	
For High Strength Low Alloy A588 Steel, Add	5.40	
For Each Additional Top Copes >2, Add	0.16	
For Structural Tees, WT, MT Or ST, Deduct	-7.86	
For Skewed Or Sloped Connections, Add	3.24	
05 12 23 00-0351 A992/A36 Structural Steel, M Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0352 LF M14 x 18 A992/A36 Structural Steel	54.90	16.05
For Hot Dip Galvanizing, Add	10.49	
For High Strength Low Alloy A572-50 Steel, Add	4.94	
For High Strength Low Alloy A588 Grade B Steel, Add	10.98	
05 12 23 00-0353 LF M12 x 11.8 A992/A36 Structural Steel	39.91	14.20
For Hot Dip Galvanizing, Add	6.87	
For High Strength Low Alloy A572-50 Steel, Add	3.59	
For High Strength Low Alloy A588 Grade B Steel, Add	7.98	
05 12 23 00-0354 LF M10 x 9 A992/A36 Structural Steel	31.03	11.40
For Hot Dip Galvanizing, Add	5.24	
For High Strength Low Alloy A572-50 Steel, Add	2.79	
For High Strength Low Alloy A588 Grade B Steel, Add	6.21	
05 12 23 00-0355 LF M8 x 6.5 A992/A36 Structural Steel	22.42	8.23
For Hot Dip Galvanizing, Add	3.79	
For High Strength Low Alloy A572-50 Steel, Add	2.02	
For High Strength Low Alloy A588 Grade B Steel, Add	4.48	
05 12 23 00-0356 LF M6 x 20 A992/A36 Structural Steel	61.92	18.88
For Hot Dip Galvanizing, Add	11.65	
For High Strength Low Alloy A572-50 Steel, Add	5.57	
For High Strength Low Alloy A588 Grade B Steel, Add	12.38	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0357 LF M6 x 4.4 A992/A36 Structural Steel.....	15.17	5.56
For Hot Dip Galvanizing, Add	2.56	
For High Strength Low Alloy A572-50 Steel, Add	1.37	
For High Strength Low Alloy A588 Grade B Steel, Add	3.03	
05 12 23 00-0358 LF M5 x 18.9 A992/A36 Structural Steel.....	59.78	18.88
For Hot Dip Galvanizing, Add	10.99	
For High Strength Low Alloy A572-50 Steel, Add	5.38	
For High Strength Low Alloy A588 Grade B Steel, Add	11.96	
05 12 23 00-0359 LF M4 x 13 A992/A36 Structural Steel.....	49.57	18.53
For Hot Dip Galvanizing, Add	8.29	
For High Strength Low Alloy A572-50 Steel, Add	4.46	
For High Strength Low Alloy A588 Grade B Steel, Add	9.91	
05 12 23 00-0360 A992/A36 Structural Steel, S Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0361 LF S24 x 121 A992/A36 Structural Steel.....	327.28	81.31
For Hot Dip Galvanizing, Add	66.76	
For High Strength Low Alloy A572-50 Steel, Add	29.46	
For High Strength Low Alloy A588 Grade B Steel, Add	65.46	
05 12 23 00-0362 LF S24 x 106 A992/A36 Structural Steel.....	290.70	74.98
For Hot Dip Galvanizing, Add	58.49	
For High Strength Low Alloy A572-50 Steel, Add	26.16	
For High Strength Low Alloy A588 Grade B Steel, Add	58.14	
05 12 23 00-0363 LF S24 x 100 A992/A36 Structural Steel.....	278.21	74.45
For Hot Dip Galvanizing, Add	55.18	
For High Strength Low Alloy A572-50 Steel, Add	25.04	
For High Strength Low Alloy A588 Grade B Steel, Add	55.64	
05 12 23 00-0364 LF S24 x 90 A992/A36 Structural Steel.....	254.16	70.53
For Hot Dip Galvanizing, Add	49.66	
For High Strength Low Alloy A572-50 Steel, Add	22.87	
For High Strength Low Alloy A588 Grade B Steel, Add	50.83	
05 12 23 00-0365 LF S24 x 80 A992/A36 Structural Steel.....	229.43	66.01
For Hot Dip Galvanizing, Add	44.14	
For High Strength Low Alloy A572-50 Steel, Add	20.65	
For High Strength Low Alloy A588 Grade B Steel, Add	45.89	
05 12 23 00-0366 LF S20 x 96 A992/A36 Structural Steel.....	267.09	71.48
For Hot Dip Galvanizing, Add	52.97	
For High Strength Low Alloy A572-50 Steel, Add	24.04	
For High Strength Low Alloy A588 Grade B Steel, Add	53.42	
05 12 23 00-0367 LF S20 x 86 A992/A36 Structural Steel.....	242.86	67.41
For Hot Dip Galvanizing, Add	47.45	
For High Strength Low Alloy A572-50 Steel, Add	21.86	
For High Strength Low Alloy A588 Grade B Steel, Add	48.57	
05 12 23 00-0368 LF S20 x 75 A992/A36 Structural Steel.....	215.09	61.88
For Hot Dip Galvanizing, Add	41.38	
For High Strength Low Alloy A572-50 Steel, Add	19.36	
For High Strength Low Alloy A588 Grade B Steel, Add	43.02	
05 12 23 00-0369 LF S20 x 66 A992/A36 Structural Steel.....	192.34	57.31
For Hot Dip Galvanizing, Add	36.42	
For High Strength Low Alloy A572-50 Steel, Add	17.31	
For High Strength Low Alloy A588 Grade B Steel, Add	38.47	
05 12 23 00-0370 LF S18 x 70 A992/A36 Structural Steel.....	203.99	60.79
For Hot Dip Galvanizing, Add	38.62	
For High Strength Low Alloy A572-50 Steel, Add	18.36	
For High Strength Low Alloy A588 Grade B Steel, Add	40.80	
05 12 23 00-0371 LF S18 x 54.7 A992/A36 Structural Steel.....	162.07	50.00
For Hot Dip Galvanizing, Add	30.18	
For High Strength Low Alloy A572-50 Steel, Add	14.59	
For High Strength Low Alloy A588 Grade B Steel, Add	32.41	
05 12 23 00-0372 LF S15 x 50 A992/A36 Structural Steel.....	150.71	48.11
For Hot Dip Galvanizing, Add	27.59	
For High Strength Low Alloy A572-50 Steel, Add	13.56	
For High Strength Low Alloy A588 Grade B Steel, Add	30.14	
05 12 23 00-0373 LF S15 x 42.9 A992/A36 Structural Steel.....	131.63	43.45
For Hot Dip Galvanizing, Add	23.67	
For High Strength Low Alloy A572-50 Steel, Add	11.85	
For High Strength Low Alloy A588 Grade B Steel, Add	26.33	
05 12 23 00-0374 LF S12 x 50 A992/A36 Structural Steel.....	148.15	45.71
For Hot Dip Galvanizing, Add	27.59	
For High Strength Low Alloy A572-50 Steel, Add	13.33	
For High Strength Low Alloy A588 Grade B Steel, Add	29.63	
05 12 23 00-0375 LF S12 x 40.8 A992/A36 Structural Steel.....	122.97	39.26
For Hot Dip Galvanizing, Add	22.51	
For High Strength Low Alloy A572-50 Steel, Add	11.07	
For High Strength Low Alloy A588 Grade B Steel, Add	24.59	
05 12 23 00-0376 LF S12 x 35 A992/A36 Structural Steel.....	107.38	35.45
For Hot Dip Galvanizing, Add	19.31	
For High Strength Low Alloy A572-50 Steel, Add	9.66	
For High Strength Low Alloy A588 Grade B Steel, Add	21.48	
05 12 23 00-0377 LF S12 x 31.8 A992/A36 Structural Steel.....	99.38	33.90
For Hot Dip Galvanizing, Add	17.55	
For High Strength Low Alloy A572-50 Steel, Add	8.94	
For High Strength Low Alloy A588 Grade B Steel, Add	19.88	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0378	LF		S10 x 35 A992/A36 Structural Steel.....	109.38	37.32
			For Hot Dip Galvanizing, Add	19.31	
			For High Strength Low Alloy A572-50 Steel, Add	9.84	
			For High Strength Low Alloy A588 Grade B Steel, Add	21.88	
05 12 23 00-0379	LF		S10 x 25.4 A992/A36 Structural Steel.....	80.89	28.51
			For Hot Dip Galvanizing, Add	14.01	
			For High Strength Low Alloy A572-50 Steel, Add	7.28	
			For High Strength Low Alloy A588 Grade B Steel, Add	16.18	
05 12 23 00-0380	LF		S8 x 23 A992/A36 Structural Steel.....	73.25	25.81
			For Hot Dip Galvanizing, Add	12.69	
			For High Strength Low Alloy A572-50 Steel, Add	6.59	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.65	
05 12 23 00-0381	LF		S8 x 18.4 A992/A36 Structural Steel.....	59.77	21.74
			For Hot Dip Galvanizing, Add	10.15	
			For High Strength Low Alloy A572-50 Steel, Add	5.38	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.95	
05 12 23 00-0382	LF		S7 x 20 A992/A36 Structural Steel.....	64.96	23.63
			For Hot Dip Galvanizing, Add	11.04	
			For High Strength Low Alloy A572-50 Steel, Add	5.85	
			For High Strength Low Alloy A588 Grade B Steel, Add	12.99	
05 12 23 00-0383	LF		S7 x 15.3 A992/A36 Structural Steel.....	50.71	19.03
			For Hot Dip Galvanizing, Add	8.44	
			For High Strength Low Alloy A572-50 Steel, Add	4.56	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.14	
05 12 23 00-0384	LF		S6 x 17.25 A992/A36 Structural Steel.....	55.42	19.80
			For Hot Dip Galvanizing, Add	9.52	
			For High Strength Low Alloy A572-50 Steel, Add	4.99	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.08	
05 12 23 00-0385	LF		S6 x 12.5 A992/A36 Structural Steel.....	47.72	18.30
			For Hot Dip Galvanizing, Add	7.81	
			For High Strength Low Alloy A572-50 Steel, Add	4.29	
			For High Strength Low Alloy A588 Grade B Steel, Add	9.54	
05 12 23 00-0386	LF		S5 x 14.75 A992/A36 Structural Steel.....	50.67	18.65
			For Hot Dip Galvanizing, Add	8.56	
			For High Strength Low Alloy A572-50 Steel, Add	4.56	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.13	
05 12 23 00-0387	LF		S5 x 10 A992/A36 Structural Steel.....	43.42	18.18
			For Hot Dip Galvanizing, Add	6.64	
			For High Strength Low Alloy A572-50 Steel, Add	3.91	
			For High Strength Low Alloy A588 Grade B Steel, Add	8.68	
05 12 23 00-0388	LF		S4 x 9.5 A992/A36 Structural Steel.....	42.30	18.18
			For Hot Dip Galvanizing, Add	6.33	
			For High Strength Low Alloy A572-50 Steel, Add	3.81	
			For High Strength Low Alloy A588 Grade B Steel, Add	8.46	
05 12 23 00-0389	LF		S4 x 7.7 A992/A36 Structural Steel.....	39.71	18.18
			For Hot Dip Galvanizing, Add	5.65	
			For High Strength Low Alloy A572-50 Steel, Add	3.57	
			For High Strength Low Alloy A588 Grade B Steel, Add	7.94	
05 12 23 00-0390	LF		S3 x 7.5 A992/A36 Structural Steel.....	39.46	18.18
			For Hot Dip Galvanizing, Add	5.58	
			For High Strength Low Alloy A572-50 Steel, Add	3.55	
			For High Strength Low Alloy A588 Grade B Steel, Add	7.89	
05 12 23 00-0391	LF		S3 x 5.7 A992/A36 Structural Steel.....	36.38	18.07
			For Hot Dip Galvanizing, Add	4.76	
			For High Strength Low Alloy A572-50 Steel, Add	3.27	
			For High Strength Low Alloy A588 Grade B Steel, Add	7.28	
05 12 23 00-0392			A992/A36 Structural Steel, HP Shapes (05 12 23 00-0133)		
			Note: Includes material delivery and erection.		
05 12 23 00-0393	LF		HP14 x 117 A992/A36 Structural Steel.....	196.56	24.09
			For Hot Dip Galvanizing, Add	47.42	
			For High Strength Low Alloy A572-50 Steel, Add	17.69	
			For High Strength Low Alloy A588 Grade B Steel, Add	39.31	
05 12 23 00-0394	LF		HP14 x 102 A992/A36 Structural Steel.....	172.24	22.41
			For Hot Dip Galvanizing, Add	41.17	
			For High Strength Low Alloy A572-50 Steel, Add	15.50	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.45	
05 12 23 00-0395	LF		HP14 x 89 A992/A36 Structural Steel.....	153.66	21.02
			For Hot Dip Galvanizing, Add	36.42	
			For High Strength Low Alloy A572-50 Steel, Add	13.83	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.73	
05 12 23 00-0396	LF		HP14 x 73 A992/A36 Structural Steel.....	127.69	19.81
			For Hot Dip Galvanizing, Add	29.57	
			For High Strength Low Alloy A572-50 Steel, Add	11.49	
			For High Strength Low Alloy A588 Grade B Steel, Add	25.54	
05 12 23 00-0397	LF		HP13 x 100 A992/A36 Structural Steel.....	168.88	21.98
			For Hot Dip Galvanizing, Add	40.36	
			For High Strength Low Alloy A572-50 Steel, Add	15.20	
			For High Strength Low Alloy A588 Grade B Steel, Add	33.78	
05 12 23 00-0398	LF		HP13 x 87 A992/A36 Structural Steel.....	150.22	20.56
			For Hot Dip Galvanizing, Add	35.60	
			For High Strength Low Alloy A572-50 Steel, Add	13.52	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.04	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0399 LF HP13 x 73 A992/A36 Structural Steel.....	127.69	19.81
For Hot Dip Galvanizing, Add	29.57	
For High Strength Low Alloy A572-50 Steel, Add	11.49	
For High Strength Low Alloy A588 Grade B Steel, Add	25.54	
05 12 23 00-0400 LF HP13 x 60 A992/A36 Structural Steel.....	108.62	18.99
For Hot Dip Galvanizing, Add	24.52	
For High Strength Low Alloy A572-50 Steel, Add	9.78	
For High Strength Low Alloy A588 Grade B Steel, Add	21.72	
05 12 23 00-0401 LF HP12 x 84 A992/A36 Structural Steel.....	142.16	21.68
For Hot Dip Galvanizing, Add	33.04	
For High Strength Low Alloy A572-50 Steel, Add	12.79	
For High Strength Low Alloy A588 Grade B Steel, Add	28.43	
05 12 23 00-0402 LF HP12 x 74 A992/A36 Structural Steel.....	125.85	20.44
For Hot Dip Galvanizing, Add	28.88	
For High Strength Low Alloy A572-50 Steel, Add	11.33	
For High Strength Low Alloy A588 Grade B Steel, Add	25.17	
05 12 23 00-0403 LF HP12 x 63 A992/A36 Structural Steel.....	108.57	18.80
For Hot Dip Galvanizing, Add	24.57	
For High Strength Low Alloy A572-50 Steel, Add	9.77	
For High Strength Low Alloy A588 Grade B Steel, Add	21.71	
05 12 23 00-0404 LF HP12 x 53 A992/A36 Structural Steel.....	99.67	17.87
For Hot Dip Galvanizing, Add	22.37	
For High Strength Low Alloy A572-50 Steel, Add	8.97	
For High Strength Low Alloy A588 Grade B Steel, Add	19.93	
05 12 23 00-0405 LF HP10 x 57 A992/A36 Structural Steel.....	104.90	18.34
For Hot Dip Galvanizing, Add	23.68	
For High Strength Low Alloy A572-50 Steel, Add	9.44	
For High Strength Low Alloy A588 Grade B Steel, Add	20.98	
05 12 23 00-0406 LF HP10 x 42 A992/A36 Structural Steel.....	86.86	17.19
For Hot Dip Galvanizing, Add	19.02	
For High Strength Low Alloy A572-50 Steel, Add	7.82	
For High Strength Low Alloy A588 Grade B Steel, Add	17.37	
05 12 23 00-0407 LF HP8 x 36 A992/A36 Structural Steel.....	75.76	16.21
For Hot Dip Galvanizing, Add	16.23	
For High Strength Low Alloy A572-50 Steel, Add	6.82	
For High Strength Low Alloy A588 Grade B Steel, Add	15.15	
05 12 23 00-0408 Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
Note: Includes cutting to length. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0409 Angle Iron - L <small>(05 12 23 00-0408)</small>		
05 12 23 00-0410 1/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0411 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.74	1.64
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.48	
For 316 Stainless Steel, Add	1.73	
For Aluminum, Add	0.10	
For Galvanized Steel, Add	0.33	
For 304 Stainless Steel, Add	1.54	
For High Strength Steel (HSS), Add	0.55	
05 12 23 00-0412 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.18	1.86
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.41	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	2.21	
For Aluminum, Add	0.12	
For Galvanized Steel, Add	0.43	
For 304 Stainless Steel, Add	1.97	
For High Strength Steel (HSS), Add	0.64	
05 12 23 00-0413 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.59	2.06
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.61	
For 316 Stainless Steel, Add	2.72	
For Aluminum, Add	0.15	
For Galvanized Steel, Add	0.53	
For 304 Stainless Steel, Add	2.42	
For High Strength Steel (HSS), Add	0.72	
05 12 23 00-0414 LF 1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.03	2.29
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.51	
For >1,000, Deduct	-0.68	
For 316 Stainless Steel, Add	3.14	
For Aluminum, Add	0.18	
For Galvanized Steel, Add	0.61	
For 304 Stainless Steel, Add	2.79	
For High Strength Steel (HSS), Add	0.81	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0415	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	4.43	2.47
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.55	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For 316 Stainless Steel, Add</i>	3.65	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.71	
			<i>For 304 Stainless Steel, Add</i>	3.25	
			<i>For High Strength Steel (HSS), Add</i>	0.89	
05 12 23 00-0416	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron.....	5.33	2.90
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000, Deduct</i>	-0.88	
			<i>For 316 Stainless Steel, Add</i>	4.64	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0417	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	5.33	2.90
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000, Deduct</i>	-0.88	
			<i>For 316 Stainless Steel, Add</i>	4.64	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0418	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron.....	6.38	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For 316 Stainless Steel, Add</i>	5.57	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.08	
			<i>For 304 Stainless Steel, Add</i>	4.96	
			<i>For High Strength Steel (HSS), Add</i>	1.28	
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	8.67	4.73
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.06	
			<i>For >1,000, Deduct</i>	-1.44	
			<i>For 316 Stainless Steel, Add</i>	7.58	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.47	
			<i>For 304 Stainless Steel, Add</i>	6.75	
			<i>For High Strength Steel (HSS), Add</i>	1.73	
05 12 23 00-0420			3/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron.....	6.21	3.07
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.24	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron.....	6.21	3.07
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.24	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron.....	6.96	3.29
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.79	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	8.26	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.60	
			<i>For 304 Stainless Steel, Add</i>	7.35	
			<i>For High Strength Steel (HSS), Add</i>	1.39	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.21	3.53
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.88	
			<i>For >1,000, Deduct</i>	-1.20	
			<i>For 316 Stainless Steel, Add</i>	11.20	
			<i>For Aluminum, Add</i>	0.63	
			<i>For Galvanized Steel, Add</i>	2.17	
			<i>For 304 Stainless Steel, Add</i>	9.98	
			<i>For High Strength Steel (HSS), Add</i>	1.64	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.99	3.78
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.95	
			<i>For >1,000, Deduct</i>	-1.30	
			<i>For 316 Stainless Steel, Add</i>	12.64	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.45	
			<i>For 304 Stainless Steel, Add</i>	11.26	
			<i>For High Strength Steel (HSS), Add</i>	1.80	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	9.81	4.05
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For 316 Stainless Steel, Add</i>	14.14	
			<i>For Aluminum, Add</i>	0.80	
			<i>For Galvanized Steel, Add</i>	2.74	
			<i>For 304 Stainless Steel, Add</i>	12.60	
			<i>For High Strength Steel (HSS), Add</i>	1.96	
05 12 23 00-0427	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.79	4.05
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For 316 Stainless Steel, Add</i>	14.08	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.73	
			<i>For 304 Stainless Steel, Add</i>	12.54	
			<i>For High Strength Steel (HSS), Add</i>	1.96	
05 12 23 00-0428	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.82	4.46
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.14	
			<i>For >1,000, Deduct</i>	-1.56	
			<i>For 316 Stainless Steel, Add</i>	15.55	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.01	
			<i>For 304 Stainless Steel, Add</i>	13.85	
			<i>For High Strength Steel (HSS), Add</i>	2.16	
05 12 23 00-0429	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron	11.84	4.89
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.24	
			<i>For >1,000, Deduct</i>	-1.70	
			<i>For 316 Stainless Steel, Add</i>	17.02	
			<i>For Aluminum, Add</i>	0.96	
			<i>For Galvanized Steel, Add</i>	3.30	
			<i>For 304 Stainless Steel, Add</i>	15.16	
			<i>For High Strength Steel (HSS), Add</i>	2.37	
05 12 23 00-0430			1/4" Thick (05 12 23 00-0409)		
05 12 23 00-0431	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.05	3.24
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.79	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	8.70	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.69	
			<i>For 304 Stainless Steel, Add</i>	7.75	
			<i>For High Strength Steel (HSS), Add</i>	1.41	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	7.95	3.47
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	10.62	
			<i>For Aluminum, Add</i>	0.60	
			<i>For Galvanized Steel, Add</i>	2.06	
			<i>For 304 Stainless Steel, Add</i>	9.46	
			<i>For High Strength Steel (HSS), Add</i>	1.59	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0433	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	9.51	3.70
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500 To 1,000, Deduct</i>	-0.97	
			<i>For >1,000, Deduct</i>	-1.33	
			<i>For 316 Stainless Steel, Add</i>	14.62	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.83	
			<i>For 304 Stainless Steel, Add</i>	13.02	
			<i>For High Strength Steel (HSS), Add</i>	1.90	
05 12 23 00-0434	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	10.66	4.10
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500 To 1,000, Deduct</i>	-1.08	
			<i>For >1,000, Deduct</i>	-1.48	
			<i>For 316 Stainless Steel, Add</i>	16.61	
			<i>For Aluminum, Add</i>	0.93	
			<i>For Galvanized Steel, Add</i>	3.22	
			<i>For 304 Stainless Steel, Add</i>	14.79	
			<i>For High Strength Steel (HSS), Add</i>	2.13	
05 12 23 00-0435	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	11.87	4.49
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.19	
			<i>For >1,000, Deduct</i>	-1.64	
			<i>For 316 Stainless Steel, Add</i>	18.78	
			<i>For Aluminum, Add</i>	1.06	
			<i>For Galvanized Steel, Add</i>	3.64	
			<i>For 304 Stainless Steel, Add</i>	16.73	
			<i>For High Strength Steel (HSS), Add</i>	2.37	
05 12 23 00-0436	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	11.87	4.49
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.19	
			<i>For >1,000, Deduct</i>	-1.64	
			<i>For 316 Stainless Steel, Add</i>	18.78	
			<i>For Aluminum, Add</i>	1.06	
			<i>For Galvanized Steel, Add</i>	3.64	
			<i>For 304 Stainless Steel, Add</i>	16.73	
			<i>For High Strength Steel (HSS), Add</i>	2.37	
05 12 23 00-0437	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	13.11	4.99
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500 To 1,000, Deduct</i>	-1.32	
			<i>For >1,000, Deduct</i>	-1.81	
			<i>For 316 Stainless Steel, Add</i>	20.67	
			<i>For Aluminum, Add</i>	1.16	
			<i>For Galvanized Steel, Add</i>	4.01	
			<i>For 304 Stainless Steel, Add</i>	18.41	
			<i>For High Strength Steel (HSS), Add</i>	2.62	
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.33	5.48
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000, Deduct</i>	-1.99	
			<i>For 316 Stainless Steel, Add</i>	22.43	
			<i>For Aluminum, Add</i>	1.26	
			<i>For Galvanized Steel, Add</i>	4.35	
			<i>For 304 Stainless Steel, Add</i>	19.98	
			<i>For High Strength Steel (HSS), Add</i>	2.87	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	15.59	5.90
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-0.98	
			<i>For >500 To 1,000, Deduct</i>	-1.57	
			<i>For >1,000, Deduct</i>	-2.15	
			<i>For 316 Stainless Steel, Add</i>	24.74	
			<i>For Aluminum, Add</i>	1.39	
			<i>For Galvanized Steel, Add</i>	4.79	
			<i>For 304 Stainless Steel, Add</i>	22.03	
			<i>For High Strength Steel (HSS), Add</i>	3.12	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	16.53	0.61
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.65	
			<i>For >1,000, Deduct</i>	-2.27	
			<i>For 316 Stainless Steel, Add</i>	26.62	
			<i>For Aluminum, Add</i>	1.50	
			<i>For Galvanized Steel, Add</i>	5.16	
			<i>For 304 Stainless Steel, Add</i>	23.71	
			<i>For High Strength Steel (HSS), Add</i>	3.31	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0441 LF 4" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.53	6.16
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.65	
For >1,000, Deduct	-2.27	
For 316 Stainless Steel, Add	26.62	
For Aluminum, Add	1.50	
For Galvanized Steel, Add	5.16	
For 304 Stainless Steel, Add	23.71	
For High Strength Steel (HSS), Add	3.31	
05 12 23 00-0442 LF 4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.43	6.42
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.73	
For >1,000, Deduct	-2.38	
For 316 Stainless Steel, Add	28.38	
For Aluminum, Add	1.60	
For Galvanized Steel, Add	5.50	
For 304 Stainless Steel, Add	25.28	
For High Strength Steel (HSS), Add	3.49	
05 12 23 00-0443 LF 4" x 4" x 1/4" Thick, Plain Steel Angle Iron	18.39	6.69
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.49	
For 316 Stainless Steel, Add	30.30	
For Aluminum, Add	1.70	
For Galvanized Steel, Add	5.87	
For 304 Stainless Steel, Add	26.99	
For High Strength Steel (HSS), Add	3.68	
05 12 23 00-0444 LF 5" x 3" x 1/4" Thick, Plain Steel Angle Iron	18.39	6.69
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.49	
For 316 Stainless Steel, Add	30.30	
For Aluminum, Add	1.70	
For Galvanized Steel, Add	5.87	
For 304 Stainless Steel, Add	26.99	
For High Strength Steel (HSS), Add	3.68	
05 12 23 00-0445 LF 5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	19.42	7.05
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.91	
For >1,000, Deduct	-2.63	
For 316 Stainless Steel, Add	32.06	
For Aluminum, Add	1.80	
For Galvanized Steel, Add	6.21	
For 304 Stainless Steel, Add	28.56	
For High Strength Steel (HSS), Add	3.88	
05 12 23 00-0446 5/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447 LF 2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	12.81	4.77
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.75	
For 316 Stainless Steel, Add	20.67	
For Aluminum, Add	1.16	
For Galvanized Steel, Add	4.01	
For 304 Stainless Steel, Add	18.41	
For High Strength Steel (HSS), Add	2.56	
05 12 23 00-0448 LF 2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	13.91	5.05
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.37	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	22.94	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.45	
For 304 Stainless Steel, Add	20.43	
For High Strength Steel (HSS), Add	2.78	
05 12 23 00-0449 LF 3" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.91	5.05
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.37	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	22.94	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.45	
For 304 Stainless Steel, Add	20.43	
For High Strength Steel (HSS), Add	2.78	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0450	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.42	5.54
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.51	
			<i>For >1,000, Deduct</i>	-2.08	
			<i>For 316 Stainless Steel, Add</i>	25.70	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	4.98	
			<i>For 304 Stainless Steel, Add</i>	22.89	
			<i>For High Strength Steel (HSS), Add</i>	3.08	
05 12 23 00-0451	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	16.78	6.03
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000, Deduct</i>	-2.26	
			<i>For 316 Stainless Steel, Add</i>	28.00	
			<i>For Aluminum, Add</i>	1.58	
			<i>For Galvanized Steel, Add</i>	5.43	
			<i>For 304 Stainless Steel, Add</i>	24.94	
			<i>For High Strength Steel (HSS), Add</i>	3.36	
05 12 23 00-0452	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	17.90	6.33
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.74	
			<i>For >1,000, Deduct</i>	-2.40	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.58	
05 12 23 00-0453	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	19.15	6.64
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.84	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	32.96	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.83	
05 12 23 00-0454	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	19.15	6.64
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.84	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	32.96	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.83	
05 12 23 00-0455	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.38	7.02
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For 316 Stainless Steel, Add</i>	35.26	
			<i>For Aluminum, Add</i>	1.98	
			<i>For Galvanized Steel, Add</i>	6.83	
			<i>For 304 Stainless Steel, Add</i>	31.41	
			<i>For High Strength Steel (HSS), Add</i>	4.08	
05 12 23 00-0456	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron.....	21.54	7.34
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.06	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.31	
05 12 23 00-0457	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	21.54	7.34
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.06	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.31	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0458 LF 5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	22.64	7.64
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.15	
For >1,000, Deduct	-2.97	
For 316 Stainless Steel, Add	39.84	
For Aluminum, Add	2.24	
For Galvanized Steel, Add	7.72	
For 304 Stainless Steel, Add	35.48	
For High Strength Steel (HSS), Add	4.53	
05 12 23 00-0459 LF 5" x 5" x 5/16" Thick, Plain Steel Angle Iron	25.39	7.96
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.43	
For >500 To 1,000, Deduct	-2.33	
For >1,000, Deduct	-3.23	
For 316 Stainless Steel, Add	47.30	
For Aluminum, Add	2.66	
For Galvanized Steel, Add	9.16	
For 304 Stainless Steel, Add	42.12	
For High Strength Steel (HSS), Add	5.08	
05 12 23 00-0460 LF 6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	25.08	8.29
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.36	
For >1,000, Deduct	-3.26	
For 316 Stainless Steel, Add	44.86	
For Aluminum, Add	2.52	
For Galvanized Steel, Add	8.69	
For 304 Stainless Steel, Add	39.96	
For High Strength Steel (HSS), Add	5.02	
05 12 23 00-0461 3/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0462 LF 3" x 2" x 3/8" Thick, Plain Steel Angle Iron	15.49	5.29
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.92	
For >500 To 1,000, Deduct	-1.48	
For >1,000, Deduct	-2.04	
For 316 Stainless Steel, Add	27.01	
For Aluminum, Add	1.52	
For Galvanized Steel, Add	5.23	
For 304 Stainless Steel, Add	24.05	
For High Strength Steel (HSS), Add	3.10	
05 12 23 00-0463 LF 3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	17.11	5.72
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.62	
For >1,000, Deduct	-2.24	
For 316 Stainless Steel, Add	30.30	
For Aluminum, Add	1.70	
For Galvanized Steel, Add	5.87	
For 304 Stainless Steel, Add	26.99	
For High Strength Steel (HSS), Add	3.42	
05 12 23 00-0464 LF 3" x 3" x 3/8" Thick, Plain Steel Angle Iron	18.52	6.17
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.75	
For >1,000, Deduct	-2.42	
For 316 Stainless Steel, Add	32.96	
For Aluminum, Add	1.85	
For Galvanized Steel, Add	6.39	
For 304 Stainless Steel, Add	29.36	
For High Strength Steel (HSS), Add	3.70	
05 12 23 00-0465 LF 3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	19.78	6.34
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.83	
For >1,000, Deduct	-2.54	
For 316 Stainless Steel, Add	36.26	
For Aluminum, Add	2.04	
For Galvanized Steel, Add	7.02	
For 304 Stainless Steel, Add	32.29	
For High Strength Steel (HSS), Add	3.96	
05 12 23 00-0466 LF 3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	21.08	6.68
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.20	
For >500 To 1,000, Deduct	-1.95	
For >1,000, Deduct	-2.70	
For 316 Stainless Steel, Add	38.91	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.54	
For 304 Stainless Steel, Add	34.66	
For High Strength Steel (HSS), Add	4.22	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0467	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	21.08	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For 316 Stainless Steel, Add</i>	38.91	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
			<i>For High Strength Steel (HSS), Add</i>	4.22	
05 12 23 00-0468	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.73	7.29
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.11	
			<i>For >1,000, Deduct</i>	-2.92	
			<i>For 316 Stainless Steel, Add</i>	41.66	
			<i>For Aluminum, Add</i>	2.34	
			<i>For Galvanized Steel, Add</i>	8.07	
			<i>For 304 Stainless Steel, Add</i>	37.11	
			<i>For High Strength Steel (HSS), Add</i>	4.55	
05 12 23 00-0469	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	24.02	7.50
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.35	
			<i>For >500 To 1,000, Deduct</i>	-2.20	
			<i>For >1,000, Deduct</i>	-3.05	
			<i>For 316 Stainless Steel, Add</i>	44.86	
			<i>For Aluminum, Add</i>	2.52	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.80	
05 12 23 00-0470	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	24.41	7.79
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.39	
			<i>For >500 To 1,000, Deduct</i>	-2.26	
			<i>For >1,000, Deduct</i>	-3.13	
			<i>For 316 Stainless Steel, Add</i>	44.86	
			<i>For Aluminum, Add</i>	2.52	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.88	
05 12 23 00-0471	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	26.09	8.40
			<i>For >100 To 250, Deduct</i>	-0.84	
			<i>For >250 To 500, Deduct</i>	-1.49	
			<i>For >500 To 1,000, Deduct</i>	-2.43	
			<i>For >1,000, Deduct</i>	-3.36	
			<i>For 316 Stainless Steel, Add</i>	47.62	
			<i>For Aluminum, Add</i>	2.68	
			<i>For Galvanized Steel, Add</i>	9.23	
			<i>For 304 Stainless Steel, Add</i>	42.41	
			<i>For High Strength Steel (HSS), Add</i>	5.22	
05 12 23 00-0472	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	30.70	9.79
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500 To 1,000, Deduct</i>	-2.84	
			<i>For >1,000, Deduct</i>	-3.93	
			<i>For 316 Stainless Steel, Add</i>	56.48	
			<i>For Aluminum, Add</i>	3.18	
			<i>For Galvanized Steel, Add</i>	10.94	
			<i>For 304 Stainless Steel, Add</i>	50.30	
			<i>For High Strength Steel (HSS), Add</i>	6.14	
05 12 23 00-0473	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.87	9.10
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-3.68	
			<i>For 316 Stainless Steel, Add</i>	53.57	
			<i>For Aluminum, Add</i>	3.01	
			<i>For Galvanized Steel, Add</i>	10.38	
			<i>For 304 Stainless Steel, Add</i>	47.71	
			<i>For High Strength Steel (HSS), Add</i>	5.77	
05 12 23 00-0474	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	30.70	9.79
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500 To 1,000, Deduct</i>	-2.84	
			<i>For >1,000, Deduct</i>	-3.93	
			<i>For 316 Stainless Steel, Add</i>	56.48	
			<i>For Aluminum, Add</i>	3.18	
			<i>For Galvanized Steel, Add</i>	10.94	
			<i>For 304 Stainless Steel, Add</i>	50.30	
			<i>For High Strength Steel (HSS), Add</i>	6.14	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0475 LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron	37.04	11.75
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.10	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.74	
For 316 Stainless Steel, Add	68.42	
For Aluminum, Add	3.85	
For Galvanized Steel, Add	13.26	
For 304 Stainless Steel, Add	60.93	
For High Strength Steel (HSS), Add	7.41	
05 12 23 00-0476 LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron	33.87	10.77
For >100 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-1.92	
For >500 To 1,000, Deduct	-3.13	
For >1,000, Deduct	-4.34	
For 316 Stainless Steel, Add	62.43	
For Aluminum, Add	3.51	
For Galvanized Steel, Add	12.10	
For 304 Stainless Steel, Add	55.60	
For High Strength Steel (HSS), Add	6.77	
05 12 23 00-0477 1/2" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0478 LF 3" x 3" x 1/2" Thick, Plain Steel Angle Iron	21.89	6.31
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.69	
For 316 Stainless Steel, Add	43.17	
For Aluminum, Add	2.43	
For Galvanized Steel, Add	8.36	
For 304 Stainless Steel, Add	38.45	
For High Strength Steel (HSS), Add	4.38	
05 12 23 00-0479 LF 4" x 3" x 1/2" Thick, Plain Steel Angle Iron	25.85	7.45
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.39	
For >500 To 1,000, Deduct	-2.29	
For >1,000, Deduct	-3.18	
For 316 Stainless Steel, Add	50.94	
For Aluminum, Add	2.87	
For Galvanized Steel, Add	9.87	
For 304 Stainless Steel, Add	45.37	
For High Strength Steel (HSS), Add	5.17	
05 12 23 00-0480 LF 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	27.71	7.98
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-2.45	
For >1,000, Deduct	-3.41	
For 316 Stainless Steel, Add	54.62	
For Aluminum, Add	3.07	
For Galvanized Steel, Add	10.58	
For 304 Stainless Steel, Add	48.65	
For High Strength Steel (HSS), Add	5.54	
05 12 23 00-0481 LF 4" x 4" x 1/2" Thick, Plain Steel Angle Iron	29.81	8.59
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.60	
For >500 To 1,000, Deduct	-2.64	
For >1,000, Deduct	-3.67	
For 316 Stainless Steel, Add	58.75	
For Aluminum, Add	3.30	
For Galvanized Steel, Add	11.38	
For 304 Stainless Steel, Add	52.33	
For High Strength Steel (HSS), Add	5.96	
05 12 23 00-0482 LF 5" x 3" x 1/2" Thick, Plain Steel Angle Iron	29.81	8.59
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.60	
For >500 To 1,000, Deduct	-2.64	
For >1,000, Deduct	-3.67	
For 316 Stainless Steel, Add	58.75	
For Aluminum, Add	3.30	
For Galvanized Steel, Add	11.38	
For 304 Stainless Steel, Add	52.33	
For High Strength Steel (HSS), Add	5.96	
05 12 23 00-0483 LF 5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	31.66	9.12
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.80	
For >1,000, Deduct	-3.89	
For 316 Stainless Steel, Add	62.43	
For Aluminum, Add	3.51	
For Galvanized Steel, Add	12.10	
For 304 Stainless Steel, Add	55.60	
For High Strength Steel (HSS), Add	6.33	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	37.72	10.86
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For 316 Stainless Steel, Add</i>	74.37	
			<i>For Aluminum, Add</i>	4.18	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.54	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	37.72	10.86
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For 316 Stainless Steel, Add</i>	74.37	
			<i>For Aluminum, Add</i>	4.18	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.54	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	45.63	13.14
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.61	
			<i>For 316 Stainless Steel, Add</i>	89.95	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For 304 Stainless Steel, Add</i>	80.11	
			<i>For High Strength Steel (HSS), Add</i>	9.13	
05 12 23 00-0487	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	41.67	12.00
			<i>For >100 To 250, Deduct</i>	-1.20	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500 To 1,000, Deduct</i>	-3.68	
			<i>For >1,000, Deduct</i>	-5.13	
			<i>For 316 Stainless Steel, Add</i>	82.14	
			<i>For Aluminum, Add</i>	4.62	
			<i>For Galvanized Steel, Add</i>	15.92	
			<i>For 304 Stainless Steel, Add</i>	73.16	
			<i>For High Strength Steel (HSS), Add</i>	8.33	
05 12 23 00-0488	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	45.63	13.14
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.61	
			<i>For 316 Stainless Steel, Add</i>	89.95	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For 304 Stainless Steel, Add</i>	80.11	
			<i>For High Strength Steel (HSS), Add</i>	9.13	
05 12 23 00-0489	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	53.57	15.43
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-2.88	
			<i>For >500 To 1,000, Deduct</i>	-4.74	
			<i>For >1,000, Deduct</i>	-6.59	
			<i>For 316 Stainless Steel, Add</i>	105.60	
			<i>For Aluminum, Add</i>	5.94	
			<i>For Galvanized Steel, Add</i>	20.46	
			<i>For 304 Stainless Steel, Add</i>	94.05	
			<i>For High Strength Steel (HSS), Add</i>	10.71	
05 12 23 00-0490	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	61.47	17.71
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-3.31	
			<i>For >500 To 1,000, Deduct</i>	-5.43	
			<i>For >1,000, Deduct</i>	-7.56	
			<i>For 316 Stainless Steel, Add</i>	121.18	
			<i>For Aluminum, Add</i>	6.82	
			<i>For Galvanized Steel, Add</i>	23.48	
			<i>For 304 Stainless Steel, Add</i>	107.93	
			<i>For High Strength Steel (HSS), Add</i>	12.29	
05 12 23 00-0491			5/8" Thick (05 12 23 00-0409)		
05 12 23 00-0492	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	35.64	9.84
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500 To 1,000, Deduct</i>	-3.09	
			<i>For >1,000, Deduct</i>	-4.31	
			<i>For 316 Stainless Steel, Add</i>	72.06	
			<i>For Aluminum, Add</i>	4.05	
			<i>For Galvanized Steel, Add</i>	13.96	
			<i>For High Strength Steel (HSS), Add</i>	7.13	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0493	LF		5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	38.15	10.53
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-4.62	
			<i>For 316 Stainless Steel, Add</i>	77.15	
			<i>For Aluminum, Add</i>	4.34	
			<i>For Galvanized Steel, Add</i>	14.95	
			<i>For High Strength Steel (HSS), Add</i>	7.63	
05 12 23 00-0494	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron	45.40	12.54
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500 To 1,000, Deduct</i>	-3.94	
			<i>For >1,000, Deduct</i>	-5.49	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For High Strength Steel (HSS), Add</i>	9.08	
05 12 23 00-0495	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron	45.40	12.54
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500 To 1,000, Deduct</i>	-3.94	
			<i>For >1,000, Deduct</i>	-5.49	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For High Strength Steel (HSS), Add</i>	9.08	
05 12 23 00-0496	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron	54.95	15.17
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-4.77	
			<i>For >1,000, Deduct</i>	-6.65	
			<i>For 316 Stainless Steel, Add</i>	111.10	
			<i>For Aluminum, Add</i>	6.25	
			<i>For Galvanized Steel, Add</i>	21.53	
			<i>For High Strength Steel (HSS), Add</i>	10.99	
05 12 23 00-0497	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron	50.17	13.85
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500 To 1,000, Deduct</i>	-4.36	
			<i>For >1,000, Deduct</i>	-6.07	
			<i>For 316 Stainless Steel, Add</i>	101.44	
			<i>For Aluminum, Add</i>	5.71	
			<i>For Galvanized Steel, Add</i>	19.65	
			<i>For High Strength Steel (HSS), Add</i>	10.03	
05 12 23 00-0498	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron	64.69	17.86
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-3.40	
			<i>For >500 To 1,000, Deduct</i>	-5.62	
			<i>For >1,000, Deduct</i>	-7.83	
			<i>For 316 Stainless Steel, Add</i>	130.82	
			<i>For Aluminum, Add</i>	7.36	
			<i>For Galvanized Steel, Add</i>	25.35	
			<i>For High Strength Steel (HSS), Add</i>	12.94	
05 12 23 00-0499	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron	74.24	20.50
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-3.91	
			<i>For >500 To 1,000, Deduct</i>	-6.44	
			<i>For >1,000, Deduct</i>	-8.98	
			<i>For 316 Stainless Steel, Add</i>	150.14	
			<i>For Aluminum, Add</i>	8.45	
			<i>For Galvanized Steel, Add</i>	29.09	
			<i>For High Strength Steel (HSS), Add</i>	14.85	
05 12 23 00-0500			3/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0501	LF		4" x 4" x 3/4" Thick, Plain Steel Angle Iron	41.05	10.87
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500 To 1,000, Deduct</i>	-3.50	
			<i>For >1,000, Deduct</i>	-4.89	
			<i>For 316 Stainless Steel, Add</i>	84.96	
			<i>For Aluminum, Add</i>	4.78	
			<i>For Galvanized Steel, Add</i>	16.46	
			<i>For High Strength Steel (HSS), Add</i>	8.21	
05 12 23 00-0502	LF		5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	43.91	11.64
			<i>For >100 To 250, Deduct</i>	-1.16	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500 To 1,000, Deduct</i>	-3.75	
			<i>For >1,000, Deduct</i>	-5.23	
			<i>For 316 Stainless Steel, Add</i>	90.88	
			<i>For Aluminum, Add</i>	5.11	
			<i>For Galvanized Steel, Add</i>	17.61	
			<i>For High Strength Steel (HSS), Add</i>	8.78	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0503	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	52.35	13.87
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500 To 1,000, Deduct</i>	-4.47	
			<i>For >1,000, Deduct</i>	-6.24	
			<i>For 316 Stainless Steel, Add</i>	108.35	
			<i>For Aluminum, Add</i>	6.09	
			<i>For Galvanized Steel, Add</i>	20.99	
			<i>For High Strength Steel (HSS), Add</i>	10.47	
05 12 23 00-0504	LF		6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	52.35	13.87
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500 To 1,000, Deduct</i>	-4.47	
			<i>For >1,000, Deduct</i>	-6.24	
			<i>For 316 Stainless Steel, Add</i>	108.35	
			<i>For Aluminum, Add</i>	6.09	
			<i>For Galvanized Steel, Add</i>	20.99	
			<i>For High Strength Steel (HSS), Add</i>	10.47	
05 12 23 00-0505	LF		6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	63.66	16.86
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-3.28	
			<i>For >500 To 1,000, Deduct</i>	-5.43	
			<i>For >1,000, Deduct</i>	-7.59	
			<i>For 316 Stainless Steel, Add</i>	131.74	
			<i>For Aluminum, Add</i>	7.41	
			<i>For Galvanized Steel, Add</i>	25.53	
			<i>For High Strength Steel (HSS), Add</i>	12.73	
05 12 23 00-0506	LF		7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	58.11	15.40
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500 To 1,000, Deduct</i>	-4.96	
			<i>For >1,000, Deduct</i>	-6.92	
			<i>For 316 Stainless Steel, Add</i>	120.26	
			<i>For Aluminum, Add</i>	6.76	
			<i>For Galvanized Steel, Add</i>	23.30	
			<i>For High Strength Steel (HSS), Add</i>	11.62	
05 12 23 00-0507	LF		8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	63.66	16.86
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-3.28	
			<i>For >500 To 1,000, Deduct</i>	-5.43	
			<i>For >1,000, Deduct</i>	-7.59	
			<i>For 316 Stainless Steel, Add</i>	131.74	
			<i>For Aluminum, Add</i>	7.41	
			<i>For Galvanized Steel, Add</i>	25.53	
			<i>For High Strength Steel (HSS), Add</i>	12.73	
05 12 23 00-0508	LF		8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	74.98	19.85
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-3.86	
			<i>For >500 To 1,000, Deduct</i>	-6.40	
			<i>For >1,000, Deduct</i>	-8.93	
			<i>For 316 Stainless Steel, Add</i>	155.20	
			<i>For Aluminum, Add</i>	8.73	
			<i>For Galvanized Steel, Add</i>	30.07	
			<i>For High Strength Steel (HSS), Add</i>	15.00	
05 12 23 00-0509	LF		8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	86.28	22.86
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-4.44	
			<i>For >500 To 1,000, Deduct</i>	-7.36	
			<i>For >1,000, Deduct</i>	-10.28	
			<i>For 316 Stainless Steel, Add</i>	178.59	
			<i>For Aluminum, Add</i>	10.05	
			<i>For Galvanized Steel, Add</i>	34.60	
			<i>For High Strength Steel (HSS), Add</i>	17.26	
05 12 23 00-0510			7/8" Thick (05 12 23 00-0409)		
05 12 23 00-0511	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	58.89	14.91
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-2.96	
			<i>For >500 To 1,000, Deduct</i>	-4.93	
			<i>For >1,000, Deduct</i>	-6.90	
			<i>For 316 Stainless Steel, Add</i>	124.83	
			<i>For Aluminum, Add</i>	7.02	
			<i>For Galvanized Steel, Add</i>	24.19	
			<i>For High Strength Steel (HSS), Add</i>	11.78	
05 12 23 00-0512	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	58.89	14.91
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-2.96	
			<i>For >500 To 1,000, Deduct</i>	-4.93	
			<i>For >1,000, Deduct</i>	-6.90	
			<i>For 316 Stainless Steel, Add</i>	124.83	
			<i>For Aluminum, Add</i>	7.02	
			<i>For Galvanized Steel, Add</i>	24.19	
			<i>For High Strength Steel (HSS), Add</i>	11.78	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0513 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron	71.70	18.15
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.61	
For >500 To 1,000, Deduct	-6.01	
For >1,000, Deduct	-8.40	
For 316 Stainless Steel, Add	151.97	
For Aluminum, Add	8.55	
For Galvanized Steel, Add	29.44	
For High Strength Steel (HSS), Add	14.34	
05 12 23 00-0514 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron	84.69	21.44
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-4.26	
For >500 To 1,000, Deduct	-7.09	
For >1,000, Deduct	-9.93	
For 316 Stainless Steel, Add	179.52	
For Aluminum, Add	10.10	
For Galvanized Steel, Add	34.78	
For High Strength Steel (HSS), Add	16.94	
05 12 23 00-0515 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron	97.45	24.68
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-4.90	
For >500 To 1,000, Deduct	-8.16	
For >1,000, Deduct	-11.42	
For 316 Stainless Steel, Add	206.56	
For Aluminum, Add	11.62	
For Galvanized Steel, Add	40.02	
For High Strength Steel (HSS), Add	19.49	
05 12 23 00-0516 Bar Channel <small>(05 12 23 00-0408)</small>		
05 12 23 00-0517 LF 1" x 1/2" x 1/8" Thick Bar Channel	4.85	
For 316 Stainless Steel, Add	4.99	
For Aluminum, Add	0.28	
For Galvanized Steel, Add	0.97	
For 304 Stainless Steel, Add	4.45	
For High Strength Steel (HSS), Add	0.97	
05 12 23 00-0518 LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel	5.46	
For 316 Stainless Steel, Add	5.98	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.16	
For 304 Stainless Steel, Add	5.33	
For High Strength Steel (HSS), Add	1.09	
05 12 23 00-0519 LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel	5.95	
For 316 Stainless Steel, Add	6.62	
For Aluminum, Add	0.37	
For Galvanized Steel, Add	1.28	
For 304 Stainless Steel, Add	5.90	
For High Strength Steel (HSS), Add	1.19	
05 12 23 00-0520 LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel	6.80	
For 316 Stainless Steel, Add	6.91	
For Aluminum, Add	0.39	
For Galvanized Steel, Add	1.34	
For 304 Stainless Steel, Add	6.16	
For High Strength Steel (HSS), Add	1.36	
05 12 23 00-0521 LF 2" x 1/2" x 1/8" Thick Bar Channel	7.28	
For 316 Stainless Steel, Add	8.45	
For Aluminum, Add	0.48	
For Galvanized Steel, Add	1.64	
For 304 Stainless Steel, Add	7.52	
05 12 23 00-0522 LF 2" x 1" x 1/8" Thick Bar Channel	9.57	
For 316 Stainless Steel, Add	9.44	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.83	
For 304 Stainless Steel, Add	8.41	
05 12 23 00-0523 Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524 LF C2 x 1.78 - 2" Wide Channel	7.96	4.09
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.61	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.28	
For 316 Stainless Steel, Add	8.03	
For Aluminum, Add	0.45	
For Galvanized Steel, Add	1.56	
For 304 Stainless Steel, Add	7.15	
05 12 23 00-0525 LF C3 x 4.1 - 3" Wide Channel	13.71	5.88
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.47	
For >1,000, Deduct	-2.01	
For 316 Stainless Steel, Add	18.82	
For Aluminum, Add	1.06	
For Galvanized Steel, Add	3.65	
For 304 Stainless Steel, Add	16.76	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0526	LF		C3 x 5 - 3" Wide Channel.....	16.72	7.17
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-1.79	
			For >1,000, Deduct	-2.45	
			For 316 Stainless Steel, Add	22.94	
			For Aluminum, Add	1.29	
			For Galvanized Steel, Add	4.45	
			For 304 Stainless Steel, Add	20.43	
05 12 23 00-0527	LF		C3 x 6 - 3" Wide Channel.....	20.08	8.60
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.36	
			For >500 To 1,000, Deduct	-2.15	
			For >1,000, Deduct	-2.94	
			For 316 Stainless Steel, Add	27.55	
			For Aluminum, Add	1.55	
			For Galvanized Steel, Add	5.34	
			For 304 Stainless Steel, Add	24.54	
05 12 23 00-0528	LF		C4 x 5.4 - 4" Wide Channel.....	17.15	7.05
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000, Deduct	-2.46	
			For 316 Stainless Steel, Add	24.80	
			For Aluminum, Add	1.40	
			For Galvanized Steel, Add	4.81	
			For 304 Stainless Steel, Add	22.09	
05 12 23 00-0529	LF		C4 x 7.25 - 4" Wide Channel.....	23.02	9.46
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.30	
			For 316 Stainless Steel, Add	33.28	
			For Aluminum, Add	1.87	
			For Galvanized Steel, Add	6.45	
			For 304 Stainless Steel, Add	29.64	
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	20.57	8.22
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.12	
			For >1,000, Deduct	-2.91	
			For 316 Stainless Steel, Add	30.75	
			For Aluminum, Add	1.73	
			For Galvanized Steel, Add	5.96	
			For 304 Stainless Steel, Add	27.39	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	27.63	11.05
			For >100 To 250, Deduct	-1.10	
			For >250 To 500, Deduct	-1.79	
			For >500 To 1,000, Deduct	-2.85	
			For >1,000, Deduct	-3.91	
			For 316 Stainless Steel, Add	41.31	
			For Aluminum, Add	2.32	
			For Galvanized Steel, Add	8.00	
			For 304 Stainless Steel, Add	36.79	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	24.92	9.87
			For >100 To 250, Deduct	-0.99	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.56	
			For >1,000, Deduct	-3.51	
			For 316 Stainless Steel, Add	37.63	
			For Aluminum, Add	2.12	
			For Galvanized Steel, Add	7.29	
			For 304 Stainless Steel, Add	33.52	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	31.91	12.64
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.06	
			For >500 To 1,000, Deduct	-3.28	
			For >1,000, Deduct	-4.50	
			For 316 Stainless Steel, Add	48.19	
			For Aluminum, Add	2.71	
			For Galvanized Steel, Add	9.34	
			For 304 Stainless Steel, Add	42.92	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	39.52	15.65
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-2.55	
			For >500 To 1,000, Deduct	-4.06	
			For >1,000, Deduct	-5.57	
			For 316 Stainless Steel, Add	59.68	
			For Aluminum, Add	3.36	
			For Galvanized Steel, Add	11.56	
			For 304 Stainless Steel, Add	53.15	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0535	LF		C7 x 9.8 - 7" Wide Channel	29.73	11.75
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-1.92	
			<i>For >500 To 1,000, Deduct</i>	-3.05	
			<i>For >1,000, Deduct</i>	-4.19	
			<i>For 316 Stainless Steel, Add</i>	44.99	
			<i>For Aluminum, Add</i>	2.53	
			<i>For Galvanized Steel, Add</i>	8.72	
			<i>For 304 Stainless Steel, Add</i>	40.07	
05 12 23 00-0536	LF		C7 x 12.25 - 7" Wide Channel	37.15	14.68
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.23	
			<i>For 316 Stainless Steel, Add</i>	56.22	
			<i>For Aluminum, Add</i>	3.16	
			<i>For Galvanized Steel, Add</i>	10.89	
			<i>For 304 Stainless Steel, Add</i>	50.07	
05 12 23 00-0537	LF		C7 x 14.75 - 7" Wide Channel	44.74	17.69
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-4.60	
			<i>For >1,000, Deduct</i>	-6.30	
			<i>For 316 Stainless Steel, Add</i>	67.71	
			<i>For Aluminum, Add</i>	3.81	
			<i>For Galvanized Steel, Add</i>	13.12	
			<i>For 304 Stainless Steel, Add</i>	60.31	
05 12 23 00-0538	LF		C8 x 11.5 - 8" Wide Channel	33.74	12.93
			<i>For >100 To 250, Deduct</i>	-1.29	
			<i>For >250 To 500, Deduct</i>	-2.14	
			<i>For >500 To 1,000, Deduct</i>	-3.41	
			<i>For >1,000, Deduct</i>	-4.69	
			<i>For 316 Stainless Steel, Add</i>	52.80	
			<i>For Aluminum, Add</i>	2.97	
			<i>For Galvanized Steel, Add</i>	10.23	
			<i>For 304 Stainless Steel, Add</i>	47.03	
05 12 23 00-0539	LF		C8 x 13.75 - 8" Wide Channel	40.33	15.46
			<i>For >100 To 250, Deduct</i>	-1.55	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500 To 1,000, Deduct</i>	-4.08	
			<i>For >1,000, Deduct</i>	-5.60	
			<i>For 316 Stainless Steel, Add</i>	63.10	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.23	
			<i>For 304 Stainless Steel, Add</i>	56.20	
05 12 23 00-0540	LF		C8 x 18.75 - 8" Wide Channel	54.99	21.08
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-3.48	
			<i>For >500 To 1,000, Deduct</i>	-5.56	
			<i>For >1,000, Deduct</i>	-7.64	
			<i>For 316 Stainless Steel, Add</i>	86.05	
			<i>For Aluminum, Add</i>	4.84	
			<i>For Galvanized Steel, Add</i>	16.67	
			<i>For 304 Stainless Steel, Add</i>	76.64	
05 12 23 00-0541	LF		C9 x 13.4 - 9" Wide Channel	39.30	15.07
			<i>For >100 To 250, Deduct</i>	-1.51	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500 To 1,000, Deduct</i>	-3.97	
			<i>For >1,000, Deduct</i>	-5.46	
			<i>For 316 Stainless Steel, Add</i>	61.50	
			<i>For Aluminum, Add</i>	3.46	
			<i>For Galvanized Steel, Add</i>	11.92	
			<i>For 304 Stainless Steel, Add</i>	54.78	
05 12 23 00-0542	LF		C9 x 15 - 9" Wide Channel	44.00	16.86
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500 To 1,000, Deduct</i>	-4.45	
			<i>For >1,000, Deduct</i>	-6.11	
			<i>For 316 Stainless Steel, Add</i>	68.86	
			<i>For Aluminum, Add</i>	3.87	
			<i>For Galvanized Steel, Add</i>	13.34	
			<i>For 304 Stainless Steel, Add</i>	61.33	
05 12 23 00-0543	LF		C9 x 20 - 9" Wide Channel	58.67	22.48
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-3.72	
			<i>For >500 To 1,000, Deduct</i>	-5.93	
			<i>For >1,000, Deduct</i>	-8.15	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel.....	44.88	17.19
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500 To 1,000, Deduct</i>	-4.54	
			<i>For >1,000, Deduct</i>	-6.23	
			<i>For 316 Stainless Steel, Add</i>	70.24	
			<i>For Aluminum, Add</i>	3.95	
			<i>For Galvanized Steel, Add</i>	13.61	
			<i>For 304 Stainless Steel, Add</i>	62.56	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel.....	58.67	22.48
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-3.72	
			<i>For >500 To 1,000, Deduct</i>	-5.93	
			<i>For >1,000, Deduct</i>	-8.15	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel.....	73.33	28.10
			<i>For >100 To 250, Deduct</i>	-2.81	
			<i>For >250 To 500, Deduct</i>	-4.64	
			<i>For >500 To 1,000, Deduct</i>	-7.41	
			<i>For >1,000, Deduct</i>	-10.18	
			<i>For 316 Stainless Steel, Add</i>	114.75	
			<i>For Aluminum, Add</i>	6.45	
			<i>For Galvanized Steel, Add</i>	22.23	
			<i>For 304 Stainless Steel, Add</i>	102.20	
05 12 23 00-0547	LF		C10 x 30 - 10" Wide Channel.....	87.99	33.72
			<i>For >100 To 250, Deduct</i>	-3.37	
			<i>For >250 To 500, Deduct</i>	-5.57	
			<i>For >500 To 1,000, Deduct</i>	-8.90	
			<i>For >1,000, Deduct</i>	-12.22	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0548	LF		C12 x 20.7 - 12" Wide Channel.....	60.71	23.27
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-3.84	
			<i>For >500 To 1,000, Deduct</i>	-6.14	
			<i>For >1,000, Deduct</i>	-8.43	
			<i>For 316 Stainless Steel, Add</i>	95.01	
			<i>For Aluminum, Add</i>	5.34	
			<i>For Galvanized Steel, Add</i>	18.41	
			<i>For 304 Stainless Steel, Add</i>	84.62	
05 12 23 00-0549	LF		C12 x 25 - 12" Wide Channel.....	73.33	28.10
			<i>For >100 To 250, Deduct</i>	-2.81	
			<i>For >250 To 500, Deduct</i>	-4.64	
			<i>For >500 To 1,000, Deduct</i>	-7.41	
			<i>For >1,000, Deduct</i>	-10.18	
			<i>For 316 Stainless Steel, Add</i>	114.75	
			<i>For Aluminum, Add</i>	6.45	
			<i>For Galvanized Steel, Add</i>	22.23	
			<i>For 304 Stainless Steel, Add</i>	102.20	
05 12 23 00-0550	LF		C12 x 30 - 12" Wide Channel.....	87.99	33.72
			<i>For >100 To 250, Deduct</i>	-3.37	
			<i>For >250 To 500, Deduct</i>	-5.57	
			<i>For >500 To 1,000, Deduct</i>	-8.90	
			<i>For >1,000, Deduct</i>	-12.22	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0551	LF		C15 x 33.9 - 15" Wide Channel.....	99.44	38.10
			<i>For >100 To 250, Deduct</i>	-3.81	
			<i>For >250 To 500, Deduct</i>	-6.30	
			<i>For >500 To 1,000, Deduct</i>	-10.05	
			<i>For >1,000, Deduct</i>	-13.81	
			<i>For 316 Stainless Steel, Add</i>	155.62	
			<i>For Aluminum, Add</i>	8.75	
			<i>For Galvanized Steel, Add</i>	30.15	
			<i>For 304 Stainless Steel, Add</i>	138.60	
05 12 23 00-0552	LF		C15 x 40 - 15" Wide Channel.....	117.32	44.96
			<i>For >100 To 250, Deduct</i>	-4.50	
			<i>For >250 To 500, Deduct</i>	-7.43	
			<i>For >500 To 1,000, Deduct</i>	-11.86	
			<i>For >1,000, Deduct</i>	-16.29	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0553 LF C15 x 50 - 15" Wide Channel	146.66	56.19
For >100 To 250, Deduct	-5.62	
For >250 To 500, Deduct	-9.29	
For >500 To 1,000, Deduct	-14.83	
For >1,000, Deduct	-20.37	
For 316 Stainless Steel, Add	229.50	
For Aluminum, Add	12.91	
For Galvanized Steel, Add	44.47	
For 304 Stainless Steel, Add	204.40	
05 12 23 00-0554 Miscellaneous Channels - MC (05 12 23 00-0408)		
05 12 23 00-0555 LF MC6 x 12 - 6" Wide Channel	36.47	14.44
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.36	
For >500 To 1,000, Deduct	-3.75	
For >1,000, Deduct	-5.14	
For 316 Stainless Steel, Add	55.07	
For Aluminum, Add	3.10	
For Galvanized Steel, Add	10.67	
For 304 Stainless Steel, Add	49.05	
05 12 23 00-0556 LF MC6 x 15.1 - 6" Wide Channel	45.90	18.18
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.97	
For >500 To 1,000, Deduct	-4.72	
For >1,000, Deduct	-6.47	
For 316 Stainless Steel, Add	69.31	
For Aluminum, Add	3.90	
For Galvanized Steel, Add	13.43	
For 304 Stainless Steel, Add	61.73	
05 12 23 00-0557 LF MC6 x 15.3 - 6" Wide Channel	46.51	18.41
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-4.78	
For >1,000, Deduct	-6.56	
For 316 Stainless Steel, Add	70.24	
For Aluminum, Add	3.95	
For Galvanized Steel, Add	13.61	
For 304 Stainless Steel, Add	62.56	
05 12 23 00-0558 LF MC6 x 16.3 - 6" Wide Channel	49.54	19.62
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-3.20	
For >500 To 1,000, Deduct	-5.09	
For >1,000, Deduct	-6.99	
For 316 Stainless Steel, Add	74.82	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.50	
For 304 Stainless Steel, Add	66.63	
05 12 23 00-0559 LF MC6 x 18 - 6" Wide Channel	54.71	21.67
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-3.53	
For >500 To 1,000, Deduct	-5.62	
For >1,000, Deduct	-7.71	
For 316 Stainless Steel, Add	82.62	
For Aluminum, Add	4.65	
For Galvanized Steel, Add	16.01	
For 304 Stainless Steel, Add	73.59	
05 12 23 00-0560 LF MC7 x 17.6 - 7" Wide Channel	53.39	21.11
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-3.45	
For >500 To 1,000, Deduct	-5.48	
For >1,000, Deduct	-7.52	
For 316 Stainless Steel, Add	80.80	
For Aluminum, Add	4.55	
For Galvanized Steel, Add	15.66	
For 304 Stainless Steel, Add	71.96	
05 12 23 00-0561 LF MC7 x 19.1 - 7" Wide Channel	57.95	22.91
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-3.74	
For >500 To 1,000, Deduct	-5.95	
For >1,000, Deduct	-8.17	
For 316 Stainless Steel, Add	87.68	
For Aluminum, Add	4.93	
For Galvanized Steel, Add	16.99	
For 304 Stainless Steel, Add	78.09	
05 12 23 00-0562 LF MC7 x 22.7 - 7" Wide Channel	68.86	27.22
For >100 To 250, Deduct	-2.72	
For >250 To 500, Deduct	-4.44	
For >500 To 1,000, Deduct	-7.07	
For >1,000, Deduct	-9.70	
For 316 Stainless Steel, Add	104.19	
For Aluminum, Add	5.86	
For Galvanized Steel, Add	20.19	
For 304 Stainless Steel, Add	92.80	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0563	LF		MC8 x 8.5 - 8" Wide Channel.....	24.94	9.55
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.52	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	39.01	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.56	
			<i>For 304 Stainless Steel, Add</i>	34.74	
05 12 23 00-0564	LF		MC8 x 18.7 - 8" Wide Channel.....	54.85	21.01
			<i>For >100 To 250, Deduct</i>	-2.10	
			<i>For >250 To 500, Deduct</i>	-3.47	
			<i>For >500 To 1,000, Deduct</i>	-5.55	
			<i>For >1,000, Deduct</i>	-7.62	
			<i>For 316 Stainless Steel, Add</i>	85.82	
			<i>For Aluminum, Add</i>	4.83	
			<i>For Galvanized Steel, Add</i>	16.63	
			<i>For 304 Stainless Steel, Add</i>	76.44	
05 12 23 00-0565	LF		MC8 x 20 - 8" Wide Channel.....	58.67	22.48
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-3.72	
			<i>For >500 To 1,000, Deduct</i>	-5.93	
			<i>For >1,000, Deduct</i>	-8.15	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel.....	62.78	24.06
			<i>For >100 To 250, Deduct</i>	-2.41	
			<i>For >250 To 500, Deduct</i>	-3.98	
			<i>For >500 To 1,000, Deduct</i>	-6.35	
			<i>For >1,000, Deduct</i>	-8.72	
			<i>For 316 Stainless Steel, Add</i>	98.24	
			<i>For Aluminum, Add</i>	5.53	
			<i>For Galvanized Steel, Add</i>	19.03	
			<i>For 304 Stainless Steel, Add</i>	87.50	
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	66.86	25.64
			<i>For >100 To 250, Deduct</i>	-2.56	
			<i>For >250 To 500, Deduct</i>	-4.23	
			<i>For >500 To 1,000, Deduct</i>	-6.76	
			<i>For >1,000, Deduct</i>	-9.28	
			<i>For 316 Stainless Steel, Add</i>	104.64	
			<i>For Aluminum, Add</i>	5.89	
			<i>For Galvanized Steel, Add</i>	20.27	
			<i>For 304 Stainless Steel, Add</i>	93.20	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	70.10	26.87
			<i>For >100 To 250, Deduct</i>	-2.69	
			<i>For >250 To 500, Deduct</i>	-4.44	
			<i>For >500 To 1,000, Deduct</i>	-7.09	
			<i>For >1,000, Deduct</i>	-9.74	
			<i>For 316 Stainless Steel, Add</i>	109.70	
			<i>For Aluminum, Add</i>	6.17	
			<i>For Galvanized Steel, Add</i>	21.25	
			<i>For 304 Stainless Steel, Add</i>	97.70	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	74.49	28.55
			<i>For >100 To 250, Deduct</i>	-2.85	
			<i>For >250 To 500, Deduct</i>	-4.72	
			<i>For >500 To 1,000, Deduct</i>	-7.53	
			<i>For >1,000, Deduct</i>	-10.34	
			<i>For 316 Stainless Steel, Add</i>	116.58	
			<i>For Aluminum, Add</i>	6.56	
			<i>For Galvanized Steel, Add</i>	22.59	
			<i>For 304 Stainless Steel, Add</i>	103.83	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	19.07	7.31
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.93	
			<i>For >1,000, Deduct</i>	-2.65	
			<i>For 316 Stainless Steel, Add</i>	29.82	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.78	
			<i>For 304 Stainless Steel, Add</i>	26.56	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	24.64	9.44
			<i>For >100 To 250, Deduct</i>	-0.94	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500 To 1,000, Deduct</i>	-2.49	
			<i>For >1,000, Deduct</i>	-3.42	
			<i>For 316 Stainless Steel, Add</i>	38.56	
			<i>For Aluminum, Add</i>	2.17	
			<i>For Galvanized Steel, Add</i>	7.47	
			<i>For 304 Stainless Steel, Add</i>	34.34	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0572 LF MC10 x 21.9 - 10" Wide Channel.....	64.23	24.62
For >100 To 250, Deduct	-2.46	
For >250 To 500, Deduct	-4.07	
For >500 To 1,000, Deduct	-6.49	
For >1,000, Deduct	-8.92	
For 316 Stainless Steel, Add	100.51	
For Aluminum, Add	5.65	
For Galvanized Steel, Add	19.47	
For 304 Stainless Steel, Add	89.52	
05 12 23 00-0573 LF MC10 x 24.9 - 10" Wide Channel.....	73.04	28.00
For >100 To 250, Deduct	-2.80	
For >250 To 500, Deduct	-4.63	
For >500 To 1,000, Deduct	-7.38	
For >1,000, Deduct	-10.14	
For 316 Stainless Steel, Add	114.30	
For Aluminum, Add	6.43	
For Galvanized Steel, Add	22.15	
For 304 Stainless Steel, Add	101.80	
05 12 23 00-0574 LF MC10 x 25.3 - 10" Wide Channel.....	74.20	28.44
For >100 To 250, Deduct	-2.84	
For >250 To 500, Deduct	-4.70	
For >500 To 1,000, Deduct	-7.50	
For >1,000, Deduct	-10.30	
For 316 Stainless Steel, Add	116.13	
For Aluminum, Add	6.53	
For Galvanized Steel, Add	22.50	
For 304 Stainless Steel, Add	103.43	
05 12 23 00-0575 LF MC10 x 28.3 - 10" Wide Channel.....	83.01	31.80
For >100 To 250, Deduct	-3.18	
For >250 To 500, Deduct	-5.26	
For >500 To 1,000, Deduct	-8.39	
For >1,000, Deduct	-11.53	
For 316 Stainless Steel, Add	129.89	
For Aluminum, Add	7.31	
For Galvanized Steel, Add	25.17	
For 304 Stainless Steel, Add	115.68	
05 12 23 00-0576 LF MC10 x 28.5 - 10" Wide Channel.....	83.59	32.04
For >100 To 250, Deduct	-3.20	
For >250 To 500, Deduct	-5.29	
For >500 To 1,000, Deduct	-8.45	
For >1,000, Deduct	-11.61	
For 316 Stainless Steel, Add	130.82	
For Aluminum, Add	7.36	
For Galvanized Steel, Add	25.35	
For 304 Stainless Steel, Add	116.51	
05 12 23 00-0577 LF MC10 x 33.6 - 10" Wide Channel.....	98.56	37.77
For >100 To 250, Deduct	-3.78	
For >250 To 500, Deduct	-6.24	
For >500 To 1,000, Deduct	-9.96	
For >1,000, Deduct	-13.69	
For 316 Stainless Steel, Add	154.24	
For Aluminum, Add	8.68	
For Galvanized Steel, Add	29.88	
For 304 Stainless Steel, Add	137.37	
05 12 23 00-0578 LF MC10 x 41.1 - 10" Wide Channel.....	120.54	46.20
For >100 To 250, Deduct	-4.62	
For >250 To 500, Deduct	-7.63	
For >500 To 1,000, Deduct	-12.19	
For >1,000, Deduct	-16.74	
For 316 Stainless Steel, Add	188.64	
For Aluminum, Add	10.61	
For Galvanized Steel, Add	36.55	
For 304 Stainless Steel, Add	168.01	
05 12 23 00-0579 LF MC12 x 30.9 - 12" Wide Channel.....	90.64	34.73
For >100 To 250, Deduct	-3.47	
For >250 To 500, Deduct	-5.74	
For >500 To 1,000, Deduct	-9.16	
For >1,000, Deduct	-12.59	
For 316 Stainless Steel, Add	141.82	
For Aluminum, Add	7.98	
For Galvanized Steel, Add	27.48	
For 304 Stainless Steel, Add	126.31	
05 12 23 00-0580 LF MC12 x 32.9 - 12" Wide Channel.....	96.50	36.97
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-6.11	
For >500 To 1,000, Deduct	-9.76	
For >1,000, Deduct	-13.40	
For 316 Stainless Steel, Add	151.01	
For Aluminum, Add	8.49	
For Galvanized Steel, Add	29.26	
For 304 Stainless Steel, Add	134.49	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0581	LF		MC12 x 35 - 12" Wide Channel.....	102.65	39.33
			<i>For >100 To 250, Deduct</i>	-3.93	
			<i>For >250 To 500, Deduct</i>	-6.50	
			<i>For >500 To 1,000, Deduct</i>	-10.38	
			<i>For >1,000, Deduct</i>	-14.26	
			<i>For 316 Stainless Steel, Add</i>	160.64	
			<i>For Aluminum, Add</i>	9.04	
			<i>For Galvanized Steel, Add</i>	31.12	
			<i>For 304 Stainless Steel, Add</i>	143.07	
05 12 23 00-0582	LF		MC12 x 37 - 12" Wide Channel.....	108.53	41.59
			<i>For >100 To 250, Deduct</i>	-4.16	
			<i>For >250 To 500, Deduct</i>	-6.87	
			<i>For >500 To 1,000, Deduct</i>	-10.97	
			<i>For >1,000, Deduct</i>	-15.07	
			<i>For 316 Stainless Steel, Add</i>	169.82	
			<i>For Aluminum, Add</i>	9.55	
			<i>For Galvanized Steel, Add</i>	32.90	
			<i>For 304 Stainless Steel, Add</i>	151.25	
05 12 23 00-0583	LF		MC12 x 40 - 12" Wide Channel.....	117.32	44.96
			<i>For >100 To 250, Deduct</i>	-4.50	
			<i>For >250 To 500, Deduct</i>	-7.43	
			<i>For >500 To 1,000, Deduct</i>	-11.86	
			<i>For >1,000, Deduct</i>	-16.29	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0584	LF		MC12 x 45 - 12" Wide Channel.....	132.00	50.59
			<i>For >100 To 250, Deduct</i>	-5.06	
			<i>For >250 To 500, Deduct</i>	-8.36	
			<i>For >500 To 1,000, Deduct</i>	-13.35	
			<i>For >1,000, Deduct</i>	-18.33	
			<i>For 316 Stainless Steel, Add</i>	206.56	
			<i>For Aluminum, Add</i>	11.62	
			<i>For Galvanized Steel, Add</i>	40.02	
			<i>For 304 Stainless Steel, Add</i>	183.97	
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	146.66	56.20
			<i>For >100 To 250, Deduct</i>	-5.62	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500 To 1,000, Deduct</i>	-14.83	
			<i>For >1,000, Deduct</i>	-20.37	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	93.28	35.75
			<i>For >100 To 250, Deduct</i>	-3.58	
			<i>For >250 To 500, Deduct</i>	-5.91	
			<i>For >500 To 1,000, Deduct</i>	-9.43	
			<i>For >1,000, Deduct</i>	-12.95	
			<i>For 316 Stainless Steel, Add</i>	145.95	
			<i>For Aluminum, Add</i>	8.21	
			<i>For Galvanized Steel, Add</i>	28.28	
			<i>For 304 Stainless Steel, Add</i>	129.99	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	102.65	39.33
			<i>For >100 To 250, Deduct</i>	-3.93	
			<i>For >250 To 500, Deduct</i>	-6.50	
			<i>For >500 To 1,000, Deduct</i>	-10.38	
			<i>For >1,000, Deduct</i>	-14.26	
			<i>For 316 Stainless Steel, Add</i>	160.64	
			<i>For Aluminum, Add</i>	9.04	
			<i>For Galvanized Steel, Add</i>	31.12	
			<i>For 304 Stainless Steel, Add</i>	143.07	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	117.32	44.96
			<i>For >100 To 250, Deduct</i>	-4.50	
			<i>For >250 To 500, Deduct</i>	-7.43	
			<i>For >500 To 1,000, Deduct</i>	-11.86	
			<i>For >1,000, Deduct</i>	-16.29	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	146.66	56.20
			<i>For >100 To 250, Deduct</i>	-5.62	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500 To 1,000, Deduct</i>	-14.83	
			<i>For >1,000, Deduct</i>	-20.37	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel.....	125.25	48.00
			<i>For >100 To 250, Deduct</i>	-4.80	
			<i>For >250 To 500, Deduct</i>	-7.93	
			<i>For >500 To 1,000, Deduct</i>	-12.66	
			<i>For >1,000, Deduct</i>	-17.39	
			<i>For 316 Stainless Steel, Add</i>	196.00	
			<i>For Aluminum, Add</i>	11.03	
			<i>For Galvanized Steel, Add</i>	37.98	
			<i>For 304 Stainless Steel, Add</i>	174.56	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel.....	134.33	51.49
			<i>For >100 To 250, Deduct</i>	-5.15	
			<i>For >250 To 500, Deduct</i>	-8.51	
			<i>For >500 To 1,000, Deduct</i>	-13.58	
			<i>For >1,000, Deduct</i>	-18.65	
			<i>For 316 Stainless Steel, Add</i>	210.21	
			<i>For Aluminum, Add</i>	11.82	
			<i>For Galvanized Steel, Add</i>	40.73	
			<i>For 304 Stainless Steel, Add</i>	187.22	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel.....	152.23	58.34
			<i>For >100 To 250, Deduct</i>	-5.83	
			<i>For >250 To 500, Deduct</i>	-9.64	
			<i>For >500 To 1,000, Deduct</i>	-15.39	
			<i>For >1,000, Deduct</i>	-21.14	
			<i>For 316 Stainless Steel, Add</i>	238.21	
			<i>For Aluminum, Add</i>	13.40	
			<i>For Galvanized Steel, Add</i>	46.15	
			<i>For 304 Stainless Steel, Add</i>	212.15	
05 12 23 00-0593	LF		MC18 x 58 - 18" Wide Channel	170.12	65.19
			<i>For >100 To 250, Deduct</i>	-6.52	
			<i>For >250 To 500, Deduct</i>	-10.77	
			<i>For >500 To 1,000, Deduct</i>	-17.20	
			<i>For >1,000, Deduct</i>	-23.63	
			<i>For 316 Stainless Steel, Add</i>	266.21	
			<i>For Aluminum, Add</i>	14.97	
			<i>For Galvanized Steel, Add</i>	51.58	
			<i>For 304 Stainless Steel, Add</i>	237.09	
05 12 23 00-0594			Structural Bar Tees (05 12 23 00-0408)		
05 12 23 00-0595	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	5.15	2.99
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.66	
			<i>For >1,000, Deduct</i>	-0.89	
			<i>For 316 Stainless Steel, Add</i>	3.71	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.72	
			<i>For 304 Stainless Steel, Add</i>	3.31	
05 12 23 00-0596	LF		1" x 1" x 1/8" Structural Bar Tee	6.29	3.53
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For 316 Stainless Steel, Add</i>	5.09	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	0.99	
			<i>For 304 Stainless Steel, Add</i>	4.53	
05 12 23 00-0597	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	9.98	4.07
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500 To 1,000, Deduct</i>	-1.04	
			<i>For >1,000, Deduct</i>	-1.43	
			<i>For 316 Stainless Steel, Add</i>	14.56	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.82	
			<i>For 304 Stainless Steel, Add</i>	12.97	
05 12 23 00-0598	LF		2" x 2" x 1/4" Structural Bar Tee	13.87	5.32
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500 To 1,000, Deduct</i>	-1.40	
			<i>For >1,000, Deduct</i>	-1.93	
			<i>For 316 Stainless Steel, Add</i>	21.66	
			<i>For Aluminum, Add</i>	1.22	
			<i>For Galvanized Steel, Add</i>	4.20	
			<i>For 304 Stainless Steel, Add</i>	19.29	
05 12 23 00-0599	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	20.73	6.42
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500 To 1,000, Deduct</i>	-1.89	
			<i>For >1,000, Deduct</i>	-2.63	
			<i>For 316 Stainless Steel, Add</i>	38.91	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	

05 Metals

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0600	LF		3" x 3" x 3/8" Structural Bar Tee	25.56	8.22
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.46	
			<i>For >500 To 1,000, Deduct</i>	-2.37	
			<i>For >1,000, Deduct</i>	-3.29	
			<i>For 316 Stainless Steel, Add</i>	46.72	
			<i>For Aluminum, Add</i>	2.63	
			<i>For Galvanized Steel, Add</i>	9.05	
			<i>For 304 Stainless Steel, Add</i>	41.61	
05 12 23 00-0601			Structural Zees (05 12 23 00-0408)		
05 12 23 00-0602	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee.....	12.21	4.07
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.71	
			<i>For >500 To 1,000, Deduct</i>	-1.15	
			<i>For >1,000, Deduct</i>	-1.59	
			<i>For 316 Stainless Steel, Add</i>	21.70	
			<i>For Aluminum, Add</i>	1.22	
			<i>For Galvanized Steel, Add</i>	4.20	
			<i>For 304 Stainless Steel, Add</i>	19.32	
05 12 23 00-0603	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	22.70	4.86
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000, Deduct</i>	-2.51	
			<i>For 316 Stainless Steel, Add</i>	51.94	
			<i>For Aluminum, Add</i>	2.92	
			<i>For Galvanized Steel, Add</i>	10.06	
			<i>For 304 Stainless Steel, Add</i>	46.26	
05 12 23 00-0604	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	27.17	5.48
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-2.09	
			<i>For >1,000, Deduct</i>	-2.95	
			<i>For 316 Stainless Steel, Add</i>	63.55	
			<i>For Aluminum, Add</i>	3.57	
			<i>For Galvanized Steel, Add</i>	12.31	
			<i>For 304 Stainless Steel, Add</i>	56.60	
05 12 23 00-0605	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	36.44	6.27
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-3.78	
			<i>For 316 Stainless Steel, Add</i>	89.89	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.42	
			<i>For 304 Stainless Steel, Add</i>	80.06	
05 12 23 00-0606	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	47.11	6.81
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.86	
			<i>For >500 To 1,000, Deduct</i>	-3.26	
			<i>For >1,000, Deduct</i>	-4.67	
			<i>For 316 Stainless Steel, Add</i>	121.66	
			<i>For Aluminum, Add</i>	6.84	
			<i>For Galvanized Steel, Add</i>	23.57	
			<i>For 304 Stainless Steel, Add</i>	108.36	
05 12 23 00-0607			Junior I-Beams (05 12 23 00-0408)		
05 12 23 00-0608	LF		3" Junior I-Beam, 2.9 LB/LF	16.77	5.88
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.62	
			<i>For >1,000, Deduct</i>	-2.24	
			<i>For 316 Stainless Steel, Add</i>	28.61	
			<i>For Aluminum, Add</i>	1.61	
			<i>For Galvanized Steel, Add</i>	5.54	
			<i>For 304 Stainless Steel, Add</i>	25.48	
05 12 23 00-0609	LF		4" Junior I-Beam, 3.2 LB/LF	18.43	6.42
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For 316 Stainless Steel, Add</i>	31.55	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.11	
			<i>For 304 Stainless Steel, Add</i>	28.10	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0610 LF 5" Junior I-Beam, 3.8 LB/LF.....	21.11	7.05
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-2.00	
For >1,000, Deduct	-2.76	
For 316 Stainless Steel, Add	37.47	
For Aluminum, Add	2.11	
For Galvanized Steel, Add	7.26	
For 304 Stainless Steel, Add	33.37	
05 12 23 00-0611 LF 6" Junior I-Beam, 4.4 LB/LF.....	23.80	7.68
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.21	
For >1,000, Deduct	-3.07	
For 316 Stainless Steel, Add	43.39	
For Aluminum, Add	2.44	
For Galvanized Steel, Add	8.41	
For 304 Stainless Steel, Add	38.65	
05 12 23 00-0612 LF 7" Junior I-Beam, 5.5 LB/LF.....	27.91	8.22
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.52	
For >500 To 1,000, Deduct	-2.49	
For >1,000, Deduct	-3.46	
For 316 Stainless Steel, Add	54.24	
For Aluminum, Add	3.05	
For Galvanized Steel, Add	10.51	
For 304 Stainless Steel, Add	48.31	
05 12 23 00-0613 LF 8" Junior I-Beam, 6.5 LB/LF.....	31.73	8.77
For >100 To 250, Deduct	-0.88	
For >250 To 500, Deduct	-1.67	
For >500 To 1,000, Deduct	-2.76	
For >1,000, Deduct	-3.84	
For 316 Stainless Steel, Add	64.10	
For Aluminum, Add	3.61	
For Galvanized Steel, Add	12.42	
For 304 Stainless Steel, Add	57.09	
05 12 23 00-0614 LF 10" Junior I-Beam, 9 LB/LF.....	41.11	10.03
For >100 To 250, Deduct	-1.00	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.39	
For >1,000, Deduct	-4.75	
For 316 Stainless Steel, Add	88.77	
For Aluminum, Add	4.99	
For Galvanized Steel, Add	17.20	
For 304 Stainless Steel, Add	79.06	
05 12 23 00-0615 LF 12" Junior I-Beam, 11.8 LB/LF.....	52.24	11.91
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-5.90	
For 316 Stainless Steel, Add	116.38	
For Aluminum, Add	6.55	
For Galvanized Steel, Add	22.55	
For 304 Stainless Steel, Add	103.65	
05 12 23 00-0616 Round Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0617 LF 1/4" Carbon Steel Rounds, ASTM A108.....	1.93	
For 316 Stainless Steel, Add	2.82	
For Aluminum, Add	0.16	
For Galvanized Steel, Add	0.55	
For 304 Stainless Steel, Add	2.51	
05 12 23 00-0618 LF 3/8" Carbon Steel Rounds, ASTM A108.....	2.92	
For 316 Stainless Steel, Add	5.54	
For Aluminum, Add	0.31	
For Galvanized Steel, Add	1.07	
For 304 Stainless Steel, Add	4.93	
05 12 23 00-0619 LF 1/2" Carbon Steel Rounds, ASTM A108.....	3.94	
For 316 Stainless Steel, Add	8.42	
For Aluminum, Add	0.47	
For Galvanized Steel, Add	1.63	
For 304 Stainless Steel, Add	7.50	
05 12 23 00-0620 LF 5/8" Carbon Steel Rounds, ASTM A108.....	5.83	
For 316 Stainless Steel, Add	14.02	
For Aluminum, Add	0.79	
For Galvanized Steel, Add	2.72	
For 304 Stainless Steel, Add	12.48	
05 12 23 00-0621 LF 3/4" Carbon Steel Rounds, ASTM A108.....	6.95	
For 316 Stainless Steel, Add	16.67	
For Aluminum, Add	0.94	
For Galvanized Steel, Add	3.23	
For 304 Stainless Steel, Add	14.85	
05 12 23 00-0622 LF 7/8" Carbon Steel Rounds, ASTM A108.....	8.09	
For 316 Stainless Steel, Add	19.46	
For Aluminum, Add	1.09	
For Galvanized Steel, Add	3.77	
For 304 Stainless Steel, Add	17.33	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0623	LF		1" Carbon Steel Rounds, ASTM A108	11.65	
			For 316 Stainless Steel, Add	29.66	
			For Aluminum, Add	1.67	
			For Galvanized Steel, Add	5.75	
			For 304 Stainless Steel, Add	26.42	
05 12 23 00-0624	LF		1-1/8" Carbon Steel Rounds, ASTM A108	14.17	
			For 316 Stainless Steel, Add	36.06	
			For Aluminum, Add	2.03	
			For Galvanized Steel, Add	6.99	
			For 304 Stainless Steel, Add	32.12	
05 12 23 00-0625	LF		1-1/4" Carbon Steel Rounds, ASTM A108	16.99	
			For 316 Stainless Steel, Add	42.43	
			For Aluminum, Add	2.39	
			For Galvanized Steel, Add	8.22	
			For 304 Stainless Steel, Add	37.79	
05 12 23 00-0626	LF		1-3/8" Carbon Steel Rounds, ASTM A108	20.53	
			For 316 Stainless Steel, Add	51.78	
			For Aluminum, Add	2.91	
			For Galvanized Steel, Add	10.03	
			For 304 Stainless Steel, Add	46.11	
05 12 23 00-0627	LF		1-1/2" Carbon Steel Rounds, ASTM A108	22.97	
			For 316 Stainless Steel, Add	56.80	
			For Aluminum, Add	3.20	
			For Galvanized Steel, Add	11.01	
			For 304 Stainless Steel, Add	50.59	
05 12 23 00-0628	LF		1-5/8" Carbon Steel Rounds, ASTM A108	26.65	
			For 316 Stainless Steel, Add	64.38	
			For Aluminum, Add	3.62	
			For Galvanized Steel, Add	12.47	
			For 304 Stainless Steel, Add	57.34	
05 12 23 00-0629	LF		1-3/4" Carbon Steel Rounds, ASTM A108	32.12	
			For 316 Stainless Steel, Add	74.91	
			For Aluminum, Add	4.21	
			For Galvanized Steel, Add	14.51	
			For 304 Stainless Steel, Add	66.72	
05 12 23 00-0630	LF		1-7/8" Carbon Steel Rounds, ASTM A108	38.91	
			For 316 Stainless Steel, Add	87.74	
			For Aluminum, Add	4.94	
			For Galvanized Steel, Add	17.00	
			For 304 Stainless Steel, Add	78.15	
05 12 23 00-0631	LF		2" Carbon Steel Rounds, ASTM A108	44.70	
			For 316 Stainless Steel, Add	97.60	
			For Aluminum, Add	5.49	
			For Galvanized Steel, Add	18.91	
			For 304 Stainless Steel, Add	86.93	
05 12 23 00-0632	LF		2-1/8" Carbon Steel Rounds, ASTM A108	52.49	
			For 316 Stainless Steel, Add	111.49	
			For Aluminum, Add	6.27	
			For Galvanized Steel, Add	21.60	
			For 304 Stainless Steel, Add	99.29	
05 12 23 00-0633	LF		2-1/4" Carbon Steel Rounds, ASTM A108	59.46	
			For 316 Stainless Steel, Add	125.34	
			For Aluminum, Add	7.05	
			For Galvanized Steel, Add	24.29	
			For 304 Stainless Steel, Add	111.63	
05 12 23 00-0634	LF		2-3/8" Carbon Steel Rounds, ASTM A108	68.13	
			For 316 Stainless Steel, Add	143.36	
			For Aluminum, Add	8.06	
			For Galvanized Steel, Add	27.78	
			For 304 Stainless Steel, Add	127.68	
05 12 23 00-0635	LF		2-1/2" Carbon Steel Rounds, ASTM A108	75.68	
			For 316 Stainless Steel, Add	154.50	
			For Aluminum, Add	8.69	
			For Galvanized Steel, Add	29.93	
			For 304 Stainless Steel, Add	137.60	
05 12 23 00-0636	LF		2-5/8" Carbon Steel Rounds, ASTM A108	91.76	
			For 316 Stainless Steel, Add	196.26	
			For Aluminum, Add	11.04	
			For Galvanized Steel, Add	38.02	
			For 304 Stainless Steel, Add	174.79	
05 12 23 00-0637	LF		2-3/4" Carbon Steel Rounds, ASTM A108	104.44	
			For 316 Stainless Steel, Add	223.81	
			For Aluminum, Add	12.59	
			For Galvanized Steel, Add	43.36	
			For 304 Stainless Steel, Add	199.33	
05 12 23 00-0638	LF		2-7/8" Carbon Steel Rounds, ASTM A108	116.49	
			For 316 Stainless Steel, Add	249.41	
			For Aluminum, Add	14.03	
			For Galvanized Steel, Add	48.32	
			For 304 Stainless Steel, Add	222.13	
05 12 23 00-0639	LF		3" Carbon Steel Rounds, ASTM A108	122.89	
			For 316 Stainless Steel, Add	256.86	
			For Aluminum, Add	14.45	
			For Galvanized Steel, Add	49.77	
			For 304 Stainless Steel, Add	228.77	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0640 LF 3-1/8" Carbon Steel Rounds, ASTM A108.....	128.72	
For 316 Stainless Steel, Add	262.56	
For Aluminum, Add	14.77	
For Galvanized Steel, Add	50.87	
For 304 Stainless Steel, Add	233.84	
05 12 23 00-0641 LF 3-1/4" Carbon Steel Rounds, ASTM A108.....	136.13	
For 316 Stainless Steel, Add	273.28	
For Aluminum, Add	15.37	
For Galvanized Steel, Add	52.95	
For 304 Stainless Steel, Add	243.39	
05 12 23 00-0642 LF 3-1/2" Carbon Steel Rounds, ASTM A108.....	164.16	
For 316 Stainless Steel, Add	346.75	
For Aluminum, Add	19.50	
For Galvanized Steel, Add	67.18	
For 304 Stainless Steel, Add	308.83	
05 12 23 00-0643 LF 3-5/8" Carbon Steel Rounds, ASTM A108.....	182.09	
For 316 Stainless Steel, Add	387.90	
For Aluminum, Add	21.82	
For Galvanized Steel, Add	75.16	
For 304 Stainless Steel, Add	345.48	
05 12 23 00-0644 LF 3-3/4" Carbon Steel Rounds, ASTM A108.....	195.62	
For 316 Stainless Steel, Add	414.94	
For Aluminum, Add	23.34	
For Galvanized Steel, Add	80.40	
For 304 Stainless Steel, Add	369.56	
05 12 23 00-0645 LF 4" Carbon Steel Rounds, ASTM A108.....	218.65	
For 316 Stainless Steel, Add	472.42	
For Aluminum, Add	26.57	
For Galvanized Steel, Add	91.53	
For 304 Stainless Steel, Add	420.75	
05 12 23 00-0646 Square Stock (05 12 23 00-0408)		
05 12 23 00-0647 LF 3/8" Square Bar Stock.....	1.87	
For 316 Stainless Steel, Add	2.18	
For Aluminum, Add	0.12	
For Galvanized Steel, Add	0.42	
For 304 Stainless Steel, Add	1.94	
05 12 23 00-0648 LF 1/2" Square Bar Stock.....	2.52	
For 316 Stainless Steel, Add	3.87	
For Aluminum, Add	0.22	
For Galvanized Steel, Add	0.75	
For 304 Stainless Steel, Add	3.45	
05 12 23 00-0649 LF 5/8" Square Bar Stock.....	3.34	
For 316 Stainless Steel, Add	6.05	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.17	
For 304 Stainless Steel, Add	5.39	
05 12 23 00-0650 LF 3/4" Square Bar Stock.....	4.47	
For 316 Stainless Steel, Add	8.74	
For Aluminum, Add	0.49	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.78	
05 12 23 00-0651 LF 7/8" Square Bar Stock.....	5.82	
For 316 Stainless Steel, Add	12.19	
For Aluminum, Add	0.69	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	10.86	
05 12 23 00-0652 LF 1" Square Bar Stock.....	7.25	
For 316 Stainless Steel, Add	15.58	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.02	
For 304 Stainless Steel, Add	13.88	
05 12 23 00-0653 LF 1-1/4" Square Bar Stock.....	11.33	
For 316 Stainless Steel, Add	24.32	
For Aluminum, Add	1.37	
For Galvanized Steel, Add	4.71	
For 304 Stainless Steel, Add	21.66	
05 12 23 00-0654 LF 1-1/2" Square Bar Stock.....	16.16	
For 316 Stainless Steel, Add	35.01	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.18	
05 12 23 00-0655 LF 1-3/4" Square Bar Stock.....	23.92	
For 316 Stainless Steel, Add	48.67	
For Aluminum, Add	2.74	
For Galvanized Steel, Add	9.43	
For 304 Stainless Steel, Add	43.35	
05 12 23 00-0656 LF 2" Square Bar Stock.....	34.08	
For 316 Stainless Steel, Add	62.27	
For Aluminum, Add	3.50	
For Galvanized Steel, Add	12.07	
For 304 Stainless Steel, Add	55.46	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0657 Steel Tubing <small>(05 12 23 00-0408)</small> Note: General purpose low-carbon steel.		
05 12 23 00-0658 Square Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0659 0.06" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0660 LF 1/2" x 1/2" x 0.06" Square Steel Tubing.....	2.54	0.56
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.20	
For >1,000, Deduct	-0.28	
For 316 Stainless Steel, Add	5.73	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.11	
For 304 Stainless Steel, Add	5.10	
05 12 23 00-0661 LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....	3.90	0.89
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.44	
For 316 Stainless Steel, Add	8.70	
For Aluminum, Add	0.49	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.75	
05 12 23 00-0662 LF 1" x 1" x 0.06" Square Steel Tubing.....	5.24	1.60
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.42	
For >1,000, Deduct	-0.59	
For 316 Stainless Steel, Add	11.65	
For Aluminum, Add	0.66	
For Galvanized Steel, Add	2.26	
For 304 Stainless Steel, Add	10.37	
05 12 23 00-0663 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	6.95	1.52
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.55	
For >1,000, Deduct	-0.78	
For 316 Stainless Steel, Add	15.71	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.04	
For 304 Stainless Steel, Add	13.99	
05 12 23 00-0664 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	8.22	1.84
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.92	
For 316 Stainless Steel, Add	18.43	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.57	
For 304 Stainless Steel, Add	16.42	
05 12 23 00-0665 0.083" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0666 LF 3/4" x 3/4" x 0.083" Square Steel Tubing.....	4.54	1.04
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.37	
For >1,000, Deduct	-0.51	
For 316 Stainless Steel, Add	10.11	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	9.01	
05 12 23 00-0667 LF 1" x 1" x 0.083" Square Steel Tubing.....	6.62	1.42
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.52	
For >1,000, Deduct	-0.73	
For 316 Stainless Steel, Add	15.14	
For Aluminum, Add	0.85	
For Galvanized Steel, Add	2.93	
For 304 Stainless Steel, Add	13.48	
05 12 23 00-0668 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	7.99	1.80
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.90	
For 316 Stainless Steel, Add	17.86	
For Aluminum, Add	1.00	
For Galvanized Steel, Add	3.46	
For 304 Stainless Steel, Add	15.90	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0669	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	9.65	2.20
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.77	
			<i>For >1,000, Deduct</i>	-1.09	
			<i>For 316 Stainless Steel, Add</i>	21.54	
			<i>For Aluminum, Add</i>	1.21	
			<i>For Galvanized Steel, Add</i>	4.17	
			<i>For 304 Stainless Steel, Add</i>	19.18	
05 12 23 00-0670	LF		2" x 2" x 0.083" Square Steel Tubing.....	12.37	2.92
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	27.10	
			<i>For Aluminum, Add</i>	1.52	
			<i>For Galvanized Steel, Add</i>	5.25	
			<i>For 304 Stainless Steel, Add</i>	24.14	
05 12 23 00-0671			0.12" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0672	LF		1" x 1" x 0.12" Square Steel Tubing.....	7.30	1.69
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.35	
			<i>For >500 To 1,000, Deduct</i>	-0.59	
			<i>For >1,000, Deduct</i>	-0.83	
			<i>For 316 Stainless Steel, Add</i>	16.13	
			<i>For Aluminum, Add</i>	0.91	
			<i>For Galvanized Steel, Add</i>	3.12	
			<i>For 304 Stainless Steel, Add</i>	14.36	
05 12 23 00-0673	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	9.39	2.17
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	20.80	
			<i>For Aluminum, Add</i>	1.17	
			<i>For Galvanized Steel, Add</i>	4.03	
			<i>For 304 Stainless Steel, Add</i>	18.53	
05 12 23 00-0674	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	11.53	2.65
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.93	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	25.60	
			<i>For Aluminum, Add</i>	1.44	
			<i>For Galvanized Steel, Add</i>	4.96	
			<i>For 304 Stainless Steel, Add</i>	22.80	
05 12 23 00-0675	LF		2" x 2" x 0.12" Square Steel Tubing.....	15.60	3.61
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For 316 Stainless Steel, Add</i>	34.53	
			<i>For Aluminum, Add</i>	1.94	
			<i>For Galvanized Steel, Add</i>	6.69	
			<i>For 304 Stainless Steel, Add</i>	30.75	
05 12 23 00-0676			1/8" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0677	LF		2" x 2" x 1/8" Square Steel Tubing.....	14.00	3.75
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500 To 1,000, Deduct</i>	-1.20	
			<i>For >1,000, Deduct</i>	-1.68	
			<i>For 316 Stainless Steel, Add</i>	28.80	
			<i>For Aluminum, Add</i>	1.62	
			<i>For Galvanized Steel, Add</i>	5.58	
			<i>For 304 Stainless Steel, Add</i>	25.65	
05 12 23 00-0678	LF		2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	18.48	4.75
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.56	
			<i>For >1,000, Deduct</i>	-2.18	
			<i>For 316 Stainless Steel, Add</i>	38.88	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.53	
			<i>For 304 Stainless Steel, Add</i>	34.63	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0679	LF		3" x 3" x 1/8" Square Steel Tubing.....	21.64	5.74
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.58	
			<i>For 316 Stainless Steel, Add</i>	44.70	
			<i>For Aluminum, Add</i>	2.51	
			<i>For Galvanized Steel, Add</i>	8.66	
			<i>For 304 Stainless Steel, Add</i>	39.81	
05 12 23 00-0680	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	25.07	6.75
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.15	
			<i>For >1,000, Deduct</i>	-3.01	
			<i>For 316 Stainless Steel, Add</i>	51.42	
			<i>For Aluminum, Add</i>	2.89	
			<i>For Galvanized Steel, Add</i>	9.96	
			<i>For 304 Stainless Steel, Add</i>	45.80	
05 12 23 00-0681	LF		4" x 4" x 1/8" Square Steel Tubing.....	27.58	7.75
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.46	
			<i>For >500 To 1,000, Deduct</i>	-2.41	
			<i>For >1,000, Deduct</i>	-3.36	
			<i>For 316 Stainless Steel, Add</i>	55.20	
			<i>For Aluminum, Add</i>	3.11	
			<i>For Galvanized Steel, Add</i>	10.70	
			<i>For 304 Stainless Steel, Add</i>	49.16	
05 12 23 00-0682			3/16" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0683	LF		2" x 2" x 3/16" Square Steel Tubing.....	15.88	4.23
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500 To 1,000, Deduct</i>	-1.36	
			<i>For >1,000, Deduct</i>	-1.90	
			<i>For 316 Stainless Steel, Add</i>	32.77	
			<i>For Aluminum, Add</i>	1.84	
			<i>For Galvanized Steel, Add</i>	6.35	
			<i>For 304 Stainless Steel, Add</i>	29.18	
05 12 23 00-0684	LF		2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	20.55	5.47
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.76	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For 316 Stainless Steel, Add</i>	42.40	
			<i>For Aluminum, Add</i>	2.39	
			<i>For Galvanized Steel, Add</i>	8.22	
			<i>For 304 Stainless Steel, Add</i>	37.76	
05 12 23 00-0685	LF		3" x 3" x 3/16" Square Steel Tubing.....	25.25	6.73
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.16	
			<i>For >1,000, Deduct</i>	-3.02	
			<i>For 316 Stainless Steel, Add</i>	52.10	
			<i>For Aluminum, Add</i>	2.93	
			<i>For Galvanized Steel, Add</i>	10.09	
			<i>For 304 Stainless Steel, Add</i>	46.40	
05 12 23 00-0686	LF		3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	29.96	7.98
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For 316 Stainless Steel, Add</i>	61.82	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	11.98	
			<i>For 304 Stainless Steel, Add</i>	55.06	
05 12 23 00-0687	LF		4" x 4" x 3/16" Square Steel Tubing.....	34.61	9.22
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.96	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	71.42	
			<i>For Aluminum, Add</i>	4.02	
			<i>For Galvanized Steel, Add</i>	13.84	
			<i>For 304 Stainless Steel, Add</i>	63.61	
05 12 23 00-0688	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	39.33	10.48
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.36	
			<i>For >1,000, Deduct</i>	-4.70	
			<i>For 316 Stainless Steel, Add</i>	81.15	
			<i>For Aluminum, Add</i>	4.56	
			<i>For Galvanized Steel, Add</i>	15.72	
			<i>For 304 Stainless Steel, Add</i>	72.28	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0689 LF 5" x 5" x 3/16" Square Steel Tubing.....	44.00	11.72
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.27	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.25	
For 316 Stainless Steel, Add	90.78	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.59	
For 304 Stainless Steel, Add	80.85	
05 12 23 00-0690 LF 6" x 6" x 3/16" Square Steel Tubing.....	53.42	14.23
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.76	
For >500 To 1,000, Deduct	-4.57	
For >1,000, Deduct	-6.38	
For 316 Stainless Steel, Add	110.21	
For Aluminum, Add	6.20	
For Galvanized Steel, Add	21.35	
For 304 Stainless Steel, Add	98.15	
05 12 23 00-0691 1/4" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0692 LF 2" x 2" x 1/4" Square Steel Tubing.....	16.97	4.24
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.41	
For >1,000, Deduct	-1.98	
For 316 Stainless Steel, Add	36.22	
For Aluminum, Add	2.04	
For Galvanized Steel, Add	7.02	
For 304 Stainless Steel, Add	32.26	
05 12 23 00-0693 LF 2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	22.30	5.57
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.11	
For >500 To 1,000, Deduct	-1.86	
For >1,000, Deduct	-2.60	
For 316 Stainless Steel, Add	47.58	
For Aluminum, Add	2.68	
For Galvanized Steel, Add	9.22	
For 304 Stainless Steel, Add	42.38	
05 12 23 00-0694 LF 3" x 3" x 1/4" Square Steel Tubing.....	27.63	6.90
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.38	
For >500 To 1,000, Deduct	-2.30	
For >1,000, Deduct	-3.22	
For 316 Stainless Steel, Add	58.98	
For Aluminum, Add	3.32	
For Galvanized Steel, Add	11.43	
For 304 Stainless Steel, Add	52.53	
05 12 23 00-0695 LF 3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	32.95	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For 316 Stainless Steel, Add	70.34	
For Aluminum, Add	3.96	
For Galvanized Steel, Add	13.63	
For 304 Stainless Steel, Add	62.64	
05 12 23 00-0696 LF 4" x 4" x 1/4" Square Steel Tubing.....	38.30	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.19	
For >1,000, Deduct	-4.47	
For 316 Stainless Steel, Add	81.73	
For Aluminum, Add	4.60	
For Galvanized Steel, Add	15.83	
For 304 Stainless Steel, Add	72.79	
05 12 23 00-0697 LF 4-1/2" x 4-1/2" x 1/4" Square Steel Tubing	43.63	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.09	
For 316 Stainless Steel, Add	93.12	
For Aluminum, Add	5.24	
For Galvanized Steel, Add	18.04	
For 304 Stainless Steel, Add	82.94	
05 12 23 00-0698 LF 5" x 5" x 1/4" Square Steel Tubing.....	48.99	12.23
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.45	
For >500 To 1,000, Deduct	-4.08	
For >1,000, Deduct	-5.71	
For 316 Stainless Steel, Add	104.54	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.26	
For 304 Stainless Steel, Add	93.11	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0699	LF		6" x 6" x 1/4" Square Steel Tubing.....	59.64	14.90
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-2.98	
			<i>For >500 To 1,000, Deduct</i>	-4.97	
			<i>For >1,000, Deduct</i>	-6.96	
			<i>For 316 Stainless Steel, Add</i>	127.30	
			<i>For Aluminum, Add</i>	7.16	
			<i>For Galvanized Steel, Add</i>	24.66	
			<i>For 304 Stainless Steel, Add</i>	113.37	
05 12 23 00-0700			Rectangular Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0701			3/16" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0702	LF		3" x 2" x 3/16" Square Steel Tubing.....	20.55	5.47
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.76	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For 316 Stainless Steel, Add</i>	42.40	
			<i>For Aluminum, Add</i>	2.39	
			<i>For Galvanized Steel, Add</i>	8.22	
			<i>For 304 Stainless Steel, Add</i>	37.76	
05 12 23 00-0703	LF		4" x 2" x 3/16" Square Steel Tubing.....	25.25	6.73
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.16	
			<i>For >1,000, Deduct</i>	-3.02	
			<i>For 316 Stainless Steel, Add</i>	52.10	
			<i>For Aluminum, Add</i>	2.93	
			<i>For Galvanized Steel, Add</i>	10.09	
			<i>For 304 Stainless Steel, Add</i>	46.40	
05 12 23 00-0704	LF		4" x 3" x 3/16" Square Steel Tubing.....	29.96	7.98
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For 316 Stainless Steel, Add</i>	61.82	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	11.98	
			<i>For 304 Stainless Steel, Add</i>	55.06	
05 12 23 00-0705	LF		5" x 2" x 3/16" Square Steel Tubing.....	29.96	7.98
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For 316 Stainless Steel, Add</i>	61.82	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	11.98	
			<i>For 304 Stainless Steel, Add</i>	55.06	
05 12 23 00-0706	LF		5" x 3" x 3/16" Square Steel Tubing.....	34.61	9.22
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.96	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	71.42	
			<i>For Aluminum, Add</i>	4.02	
			<i>For Galvanized Steel, Add</i>	13.84	
			<i>For 304 Stainless Steel, Add</i>	63.61	
05 12 23 00-0707	LF		5" x 4" x 3/16" Square Steel Tubing.....	39.33	10.48
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.36	
			<i>For >1,000, Deduct</i>	-4.70	
			<i>For 316 Stainless Steel, Add</i>	81.15	
			<i>For Aluminum, Add</i>	4.56	
			<i>For Galvanized Steel, Add</i>	15.72	
			<i>For 304 Stainless Steel, Add</i>	72.28	
05 12 23 00-0708	LF		6" x 2" x 3/16" Square Steel Tubing.....	34.61	9.22
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.96	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	71.42	
			<i>For Aluminum, Add</i>	4.02	
			<i>For Galvanized Steel, Add</i>	13.84	
			<i>For 304 Stainless Steel, Add</i>	63.61	
05 12 23 00-0709	LF		6" x 3" x 3/16" Square Steel Tubing.....	39.33	10.48
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.36	
			<i>For >1,000, Deduct</i>	-4.70	
			<i>For 316 Stainless Steel, Add</i>	81.15	
			<i>For Aluminum, Add</i>	4.56	
			<i>For Galvanized Steel, Add</i>	15.72	
			<i>For 304 Stainless Steel, Add</i>	72.28	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0710 LF 6" x 4" x 3/16" Square Steel Tubing.....	44.00	11.72
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.27	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.25	
For 316 Stainless Steel, Add	90.78	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.59	
For 304 Stainless Steel, Add	80.85	
05 12 23 00-0711 1/4" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0712 LF 3" x 2" x 1/4" Square Steel Tubing.....	22.30	5.57
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.11	
For >500 To 1,000, Deduct	-1.86	
For >1,000, Deduct	-2.60	
For 316 Stainless Steel, Add	47.58	
For Aluminum, Add	2.68	
For Galvanized Steel, Add	9.22	
For 304 Stainless Steel, Add	42.38	
05 12 23 00-0713 LF 4" x 2" x 1/4" Square Steel Tubing.....	27.63	6.90
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.38	
For >500 To 1,000, Deduct	-2.30	
For >1,000, Deduct	-3.22	
For 316 Stainless Steel, Add	58.98	
For Aluminum, Add	3.32	
For Galvanized Steel, Add	11.43	
For 304 Stainless Steel, Add	52.53	
05 12 23 00-0714 LF 4" x 3" x 1/4" Square Steel Tubing.....	32.95	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For 316 Stainless Steel, Add	70.34	
For Aluminum, Add	3.96	
For Galvanized Steel, Add	13.63	
For 304 Stainless Steel, Add	62.64	
05 12 23 00-0715 LF 5" x 2" x 1/4" Square Steel Tubing.....	32.95	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For 316 Stainless Steel, Add	70.34	
For Aluminum, Add	3.96	
For Galvanized Steel, Add	13.63	
For 304 Stainless Steel, Add	62.64	
05 12 23 00-0716 LF 5" x 3" x 1/4" Square Steel Tubing.....	38.30	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.19	
For >1,000, Deduct	-4.47	
For 316 Stainless Steel, Add	81.73	
For Aluminum, Add	4.60	
For Galvanized Steel, Add	15.83	
For 304 Stainless Steel, Add	72.79	
05 12 23 00-0717 LF 5" x 4" x 1/4" Square Steel Tubing.....	43.63	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.09	
For 316 Stainless Steel, Add	93.12	
For Aluminum, Add	5.24	
For Galvanized Steel, Add	18.04	
For 304 Stainless Steel, Add	82.94	
05 12 23 00-0718 LF 6" x 2" x 1/4" Square Steel Tubing.....	38.30	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.19	
For >1,000, Deduct	-4.47	
For 316 Stainless Steel, Add	81.73	
For Aluminum, Add	4.60	
For Galvanized Steel, Add	15.83	
For 304 Stainless Steel, Add	72.79	
05 12 23 00-0719 LF 6" x 3" x 1/4" Square Steel Tubing.....	43.63	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.09	
For 316 Stainless Steel, Add	93.12	
For Aluminum, Add	5.24	
For Galvanized Steel, Add	18.04	
For 304 Stainless Steel, Add	82.94	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0720 LF 6" x 4" x 1/4" Square Steel Tubing.....	48.99	12.23
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.45	
For >500 To 1,000, Deduct	-4.08	
For >1,000, Deduct	-5.71	
For 316 Stainless Steel, Add	104.54	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.26	
For 304 Stainless Steel, Add	93.11	
05 12 23 00-0721 Round Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0722 0.065" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0723 LF 1" Diameter x 0.065" Round Steel Tubing	4.54	1.02
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.51	
For 316 Stainless Steel, Add	10.18	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.97	
For 304 Stainless Steel, Add	9.06	
05 12 23 00-0724 LF 1-1/4" Diameter x 0.065" Round Steel Tubing	5.75	1.29
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.46	
For >1,000, Deduct	-0.65	
For 316 Stainless Steel, Add	12.90	
For Aluminum, Add	0.73	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	11.49	
05 12 23 00-0725 LF 1-1/2" Diameter x 0.065" Round Steel Tubing	6.96	1.56
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.78	
For 316 Stainless Steel, Add	15.62	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	13.91	
05 12 23 00-0726 LF 2" Diameter x 0.065" Round Steel Tubing	9.38	2.11
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.75	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	21.06	
For Aluminum, Add	1.18	
For Galvanized Steel, Add	4.08	
For 304 Stainless Steel, Add	18.75	
05 12 23 00-0727 LF 2-1/2" Diameter x 0.065" Round Steel Tubing	11.81	2.65
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.56	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.33	
For 316 Stainless Steel, Add	26.50	
For Aluminum, Add	1.49	
For Galvanized Steel, Add	5.13	
For 304 Stainless Steel, Add	23.60	
05 12 23 00-0728 LF 3" Diameter x 0.065" Round Steel Tubing	14.23	3.19
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.67	
For >500 To 1,000, Deduct	-1.14	
For >1,000, Deduct	-1.60	
For 316 Stainless Steel, Add	31.94	
For Aluminum, Add	1.80	
For Galvanized Steel, Add	6.19	
For 304 Stainless Steel, Add	28.44	
05 12 23 00-0729 LF 3-1/2" Diameter x 0.065" Round Steel Tubing	16.67	3.74
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.79	
For >500 To 1,000, Deduct	-1.33	
For >1,000, Deduct	-1.87	
For 316 Stainless Steel, Add	37.41	
For Aluminum, Add	2.10	
For Galvanized Steel, Add	7.25	
For 304 Stainless Steel, Add	33.32	
05 12 23 00-0730 LF 4" Diameter x 0.065" Round Steel Tubing	19.09	4.28
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.52	
For >1,000, Deduct	-2.14	
For 316 Stainless Steel, Add	42.85	
For Aluminum, Add	2.41	
For Galvanized Steel, Add	8.30	
For 304 Stainless Steel, Add	38.16	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0731 0.083" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0732 LF 1" Diameter x 0.083" Round Steel Tubing	4.92	1.12
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	11.01	
For Aluminum, Add	0.62	
For Galvanized Steel, Add	2.13	
For 304 Stainless Steel, Add	9.80	
05 12 23 00-0733 LF 1-1/4" Diameter x 0.083" Round Steel Tubing	6.27	1.42
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.71	
For 316 Stainless Steel, Add	14.02	
For Aluminum, Add	0.79	
For Galvanized Steel, Add	2.72	
For 304 Stainless Steel, Add	12.48	
05 12 23 00-0734 LF 1-1/2" Diameter x 0.083" Round Steel Tubing	7.62	1.72
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.61	
For >1,000, Deduct	-0.86	
For 316 Stainless Steel, Add	17.02	
For Aluminum, Add	0.96	
For Galvanized Steel, Add	3.30	
For 304 Stainless Steel, Add	15.16	
05 12 23 00-0735 LF 2" Diameter x 0.083" Round Steel Tubing	10.29	2.33
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.82	
For >1,000, Deduct	-1.16	
For 316 Stainless Steel, Add	23.01	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.46	
For 304 Stainless Steel, Add	20.49	
05 12 23 00-0736 LF 2-1/2" Diameter x 0.083" Round Steel Tubing	12.99	2.94
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-1.04	
For >1,000, Deduct	-1.46	
For 316 Stainless Steel, Add	29.02	
For Aluminum, Add	1.63	
For Galvanized Steel, Add	5.62	
For 304 Stainless Steel, Add	25.85	
05 12 23 00-0737 LF 3" Diameter x 0.083" Round Steel Tubing	15.67	3.55
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.26	
For >1,000, Deduct	-1.77	
For 316 Stainless Steel, Add	35.01	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.18	
05 12 23 00-0738 LF 3-1/2" Diameter x 0.083" Round Steel Tubing	18.35	4.15
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.87	
For >500 To 1,000, Deduct	-1.47	
For >1,000, Deduct	-2.07	
For 316 Stainless Steel, Add	41.02	
For Aluminum, Add	2.31	
For Galvanized Steel, Add	7.95	
For 304 Stainless Steel, Add	36.54	
05 12 23 00-0739 LF 4" Diameter x 0.083" Round Steel Tubing	21.05	4.76
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.69	
For >1,000, Deduct	-2.37	
For 316 Stainless Steel, Add	47.04	
For Aluminum, Add	2.65	
For Galvanized Steel, Add	9.11	
For 304 Stainless Steel, Add	41.90	

05 12 23 00-0740 0.125" Wall Thickness (05 12 23 00-0721)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0741	LF		2" Diameter x 0.125" Round Steel Tubing	10.98	2.94
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.94	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	22.59	
			<i>For Aluminum, Add</i>	1.27	
			<i>For Galvanized Steel, Add</i>	4.38	
			<i>For 304 Stainless Steel, Add</i>	20.12	
05 12 23 00-0742	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	13.91	3.73
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.19	
			<i>For >1,000, Deduct</i>	-1.66	
			<i>For 316 Stainless Steel, Add</i>	28.61	
			<i>For Aluminum, Add</i>	1.61	
			<i>For Galvanized Steel, Add</i>	5.54	
			<i>For 304 Stainless Steel, Add</i>	25.48	
05 12 23 00-0743	LF		3" Diameter x 0.125" Round Steel Tubing	16.84	4.51
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.44	
			<i>For >1,000, Deduct</i>	-2.02	
			<i>For 316 Stainless Steel, Add</i>	34.62	
			<i>For Aluminum, Add</i>	1.95	
			<i>For Galvanized Steel, Add</i>	6.71	
			<i>For 304 Stainless Steel, Add</i>	30.84	
05 12 23 00-0744	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	19.76	5.29
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.36	
			<i>For 316 Stainless Steel, Add</i>	40.64	
			<i>For Aluminum, Add</i>	2.29	
			<i>For Galvanized Steel, Add</i>	7.87	
			<i>For 304 Stainless Steel, Add</i>	36.20	
05 12 23 00-0745	LF		4" Diameter x 0.125" Round Steel Tubing	22.69	6.08
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-1.94	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	46.69	
			<i>For Aluminum, Add</i>	2.63	
			<i>For Galvanized Steel, Add</i>	9.05	
			<i>For 304 Stainless Steel, Add</i>	41.58	
05 12 23 00-0746			Flat Steel Bar (05 12 23 00-0406)		
05 12 23 00-0747			1/8" Thick (05 12 23 00-0746)		
05 12 23 00-0748	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.17	1.46
			<i>For 316 Stainless Steel, Add</i>	3.10	
			<i>For Aluminum, Add</i>	0.17	
			<i>For Galvanized Steel, Add</i>	0.60	
			<i>For 304 Stainless Steel, Add</i>	2.76	
05 12 23 00-0749	LF		1/8" Thick x 2" Wide Flat Steel Bar	4.91	2.20
			<i>For 316 Stainless Steel, Add</i>	5.18	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	4.62	
05 12 23 00-0750	LF		1/8" Thick x 4" Wide Flat Steel Bar	7.58	3.09
			<i>For 316 Stainless Steel, Add</i>	9.41	
			<i>For Aluminum, Add</i>	0.53	
			<i>For Galvanized Steel, Add</i>	1.82	
			<i>For 304 Stainless Steel, Add</i>	8.38	
05 12 23 00-0751	LF		1/8" Thick x 6" Wide Flat Steel Bar	10.27	4.20
			<i>For 316 Stainless Steel, Add</i>	12.70	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.46	
			<i>For 304 Stainless Steel, Add</i>	11.31	
05 12 23 00-0752			3/16" Thick (05 12 23 00-0746)		
05 12 23 00-0753	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.21	1.81
			<i>For 316 Stainless Steel, Add</i>	4.74	
			<i>For Aluminum, Add</i>	0.27	
			<i>For Galvanized Steel, Add</i>	0.92	
			<i>For 304 Stainless Steel, Add</i>	4.22	
05 12 23 00-0754	LF		3/16" Thick x 2" Wide Flat Steel Bar	6.65	2.73
			<i>For 316 Stainless Steel, Add</i>	8.19	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.59	
			<i>For 304 Stainless Steel, Add</i>	7.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0755 LF 3/16" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	9.01 13.79 0.78 2.67 12.28	3.13
05 12 23 00-0756 LF 3/16" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	12.48 19.07 1.07 3.70 16.99	4.34
05 12 23 00-0757 1/4" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0758 LF 1/4" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	4.34 4.67 0.26 0.91 4.16	1.92
05 12 23 00-0759 LF 1/4" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	7.28 9.47 0.53 1.84 8.44	2.88
05 12 23 00-0760 LF 1/4" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	10.67 18.34 1.03 3.55 16.33	3.29
05 12 23 00-0761 LF 1/4" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	15.44 25.98 1.46 5.03 23.14	4.87
05 12 23 00-0762 3/8" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0763 LF 3/8" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	5.54 7.36 0.41 1.43 6.56	2.17
05 12 23 00-0764 LF 3/8" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	9.11 13.57 0.76 2.63 12.08	3.23
05 12 23 00-0765 LF 3/8" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	14.02 27.10 1.52 5.25 24.14	3.70
05 12 23 00-0766 LF 3/8" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	20.15 38.14 2.15 7.39 33.97	5.47
05 12 23 00-0767 1/2" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768 LF 1/2" Thick x 1" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	6.51 9.41 0.53 1.82 8.38	2.37
05 12 23 00-0769 LF 1/2" Thick x 2" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	10.77 17.31 0.97 3.35 15.42	3.57
05 12 23 00-0770 LF 1/2" Thick x 4" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	15.32 29.47 1.66 5.71 26.25	4.06
05 12 23 00-0771 LF 1/2" Thick x 6" Wide Flat Steel Bar <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	27.43 58.82 3.31 11.40 52.38	6.03
05 12 23 00-0772 Flat Steel Plate <small>(05 12 23 00-0408)</small>		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0773	SF		1/8" Thick Flat Steel Plate.....	16.38	6.30
			For 316 Stainless Steel, Add	22.18	
			For Aluminum, Add	1.25	
			For Galvanized Steel, Add	4.30	
			For 304 Stainless Steel, Add	19.75	
05 12 23 00-0774	SF		3/16" Thick Flat Steel Plate.....	18.46	6.52
			For 316 Stainless Steel, Add	27.74	
			For Aluminum, Add	1.56	
			For Galvanized Steel, Add	5.38	
			For 304 Stainless Steel, Add	24.71	
05 12 23 00-0775	SF		1/4" Thick Flat Steel Plate.....	22.02	7.31
			For 316 Stainless Steel, Add	35.39	
			For Aluminum, Add	1.99	
			For Galvanized Steel, Add	6.86	
			For 304 Stainless Steel, Add	31.52	
05 12 23 00-0776	SF		3/8" Thick Flat Steel Plate.....	29.69	8.22
			For 316 Stainless Steel, Add	55.55	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.76	
			For 304 Stainless Steel, Add	49.48	
05 12 23 00-0777	SF		1/2" Thick Flat Steel Plate.....	35.19	9.04
			For 316 Stainless Steel, Add	69.22	
			For Aluminum, Add	3.89	
			For Galvanized Steel, Add	13.41	
			For 304 Stainless Steel, Add	61.65	
05 12 23 00-0778	SF		3/4" Thick Flat Steel Plate.....	57.52	11.20
			For 316 Stainless Steel, Add	129.79	
			For Aluminum, Add	7.30	
			For Galvanized Steel, Add	25.15	
			For 304 Stainless Steel, Add	115.60	
05 12 23 00-0779	SF		1" Thick Flat Steel Plate.....	76.74	13.99
			For 316 Stainless Steel, Add	177.73	
			For Aluminum, Add	10.00	
			For Galvanized Steel, Add	34.43	
			For 304 Stainless Steel, Add	158.29	

05 13 Structural Stainless-Steel Framing (05 10)**05 13 00 00-0001 Stainless Steel Tube** (05 13)

05 13 00 00-0002	LF		1" x 1" Stainless Steel Tube.....	32.21	
05 13 00 00-0003	LF		1-1/2" x 1-1/2" Stainless Steel Tube	41.79	
05 13 00 00-0004	LF		2" x 2" Stainless Steel Tube.....	56.44	

05 14 Structural Aluminum Framing (05 10)**05 14 13 Architecturally-Exposed Structural Aluminum Framing** (05 14)**05 14 13 00-0001 Rolled Or Plate Shapes** (05 14 13)

Note: 1" through 10" member.

05 14 13 00-0002	LB		Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	6.12	0.82
05 14 13 00-0003	LB		Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	5.42	0.76

05 14 13 00-0004 Aluminum Extrusions (05 14 13)

05 14 13 00-0005	LB		Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	11.02	3.40
05 14 13 00-0006	LB		Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	11.55	3.40

05 14 13 00-0007 Aluminum Tubing (05 14 13)

05 14 13 00-0008	LB		Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	9.67	2.15
05 14 13 00-0009	LF		1" x 1" Aluminum Tubing, 1/8" Wall Thickness	9.80	3.48
05 14 13 00-0010	LF		1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	11.56	3.80
05 14 13 00-0011	LF		1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	13.32	4.43
05 14 13 00-0012	LF		2" x 2" Aluminum Tubing, 1/8" Wall Thickness	15.47	4.76
05 14 13 00-0013	LF		4" x 4" Aluminum Tubing, 1/4" Wall Thickness	39.46	6.03
05 14 13 00-0014	LF		2" x 5" Aluminum Tubing, 1/4" Wall Thickness	32.65	5.39

05 14 13 00-0015 Columns (05 14 13)

Note: Baked on paint finish, load bearing.

05 14 13 00-0016 Round Columns (05 14 13 00-0015)

05 14 13 00-0017	LF		6" Diameter Aluminum Column	37.62	6.80
05 14 13 00-0018	LF		8" Diameter Aluminum Column	50.01	9.74
05 14 13 00-0019	LF		10" Diameter Aluminum Column	60.41	10.96
05 14 13 00-0020	LF		12" Diameter Aluminum Column	87.48	11.46
05 14 13 00-0021	LF		15" Diameter Aluminum Column	110.80	13.29
05 14 13 00-0022	EA		6" Diameter Aluminum Base And Cap	72.02	12.68
05 14 13 00-0023	EA		8" Diameter Aluminum Base And Cap	81.92	13.70
05 14 13 00-0024	EA		10" Diameter Aluminum Base And Cap	102.11	15.22
05 14 13 00-0025	EA		12" Diameter Aluminum Base And Cap	170.18	16.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap	256.13	17.75
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column	40.97	6.80
05 14 13 00-0029 LF 8" Diameter Aluminum Column	56.11	9.74
05 14 13 00-0030 LF 10" Diameter Aluminum Column	68.11	10.96
05 14 13 00-0031 LF 12" Diameter Aluminum Column	100.41	11.46
05 14 13 00-0032 LF 15" Diameter Aluminum Column	127.66	13.29
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap	81.35	12.68
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap	92.83	13.70
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap	116.44	15.22
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap	197.72	16.23
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap	300.25	17.75
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column	45.09	6.80
05 14 13 00-0040 LF 8" Diameter Aluminum Column	61.60	9.74
05 14 13 00-0041 LF 10" Diameter Aluminum Column	75.04	10.96
05 14 13 00-0042 LF 12" Diameter Aluminum Column	112.04	11.46
05 14 13 00-0043 LF 15" Diameter Aluminum Column	142.84	13.29
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap	89.75	12.68
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap	102.64	13.70
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap	129.34	15.22
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap	222.51	16.23
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap	339.96	17.75
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column	47.91	6.80
05 14 13 00-0051 LF 8" Aluminum Column	65.35	9.74
05 14 13 00-0052 LF 10" Aluminum Column	79.78	10.96
05 14 13 00-0053 LF 12" Aluminum Column	120.00	11.46
05 14 13 00-0054 LF 15" Aluminum Column	153.22	13.29
05 14 13 00-0055 EA 6" Aluminum Base And Cap	95.49	12.68
05 14 13 00-0056 EA 8" Aluminum Base And Cap	109.35	13.70
05 14 13 00-0057 EA 10" Aluminum Base And Cap	138.16	15.22
05 14 13 00-0058 EA 12" Aluminum Base And Cap	239.46	16.23
05 14 13 00-0059 EA 15" Aluminum Base And Cap	367.11	17.75
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061 EA 8" Corinthian Capital And Base	505.40	15.22
05 14 13 00-0062 EA 10" Corinthian Capital And Base	740.84	17.75
05 14 13 00-0063 EA 12" Corinthian Capital And Base	1,167.08	20.29
05 14 13 00-0064 EA 8" Scamozzi Capital And Base	255.74	15.22
05 14 13 00-0065 EA 10" Scamozzi Capital And Base	340.98	17.75
05 14 13 00-0066 EA 12" Scamozzi Capital And Base	676.29	20.29
05 15 Wire Rope Assemblies (05 10)		
05 15 16 Steel Wire Rope Assemblies (05 15)		
05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)		
05 15 16 00-0002 LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.01	0.10
For >500, Deduct	-0.17	
05 15 16 00-0003 LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.38	0.10
For >500, Deduct	-0.22	
05 15 16 00-0004 LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.68	0.21
For >500, Deduct	-0.26	
05 15 16 00-0005 LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.06	0.21
For >500, Deduct	-0.30	
05 15 16 00-0006 LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.42	0.31
For >500, Deduct	-0.34	
05 15 16 00-0007 LF 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.99	0.41
For >500, Deduct	-0.41	
05 15 16 00-0008 LF 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.59	0.41
For >500, Deduct	-0.49	
05 15 16 00-0009 LF 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.02	0.74
For >500, Deduct	-0.67	

05	Metals
05 10	Structural Metal Framing
05 15	Wire Rope Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.75	0.84
			<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.50	1.15
			<i>For >500, Deduct</i>	-1.11	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.51	1.46
			<i>For >500, Deduct</i>	-1.37	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.82	1.77
			<i>For >500, Deduct</i>	-1.67	
05 15 16 00-0014			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.18	0.10
			<i>For >500, Deduct</i>	-0.20	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.54	0.10
			<i>For >500, Deduct</i>	-0.25	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.95	0.21
			<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.27	0.21
			<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.72	0.31
			<i>For >500, Deduct</i>	-0.40	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.19	0.41
			<i>For >500, Deduct</i>	-0.45	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.76	0.41
			<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.50	0.74
			<i>For >500, Deduct</i>	-0.77	
05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.11	0.84
			<i>For >500, Deduct</i>	-0.98	
05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.83	1.15
			<i>For >500, Deduct</i>	-1.19	
05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.31	1.46
			<i>For >500, Deduct</i>	-1.52	
05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.72	1.77
			<i>For >500, Deduct</i>	-1.85	
05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	0.95	0.10
			<i>For >500, Deduct</i>	-0.15	
05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.31	0.10
			<i>For >500, Deduct</i>	-0.21	
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.59	0.21
			<i>For >500, Deduct</i>	-0.24	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.91	0.21
			<i>For >500, Deduct</i>	-0.27	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.33	0.31
			<i>For >500, Deduct</i>	-0.32	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.95	0.41
			<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.48	0.41
			<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.91	0.74
			<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.12	0.84
			<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.83	1.15
			<i>For >500, Deduct</i>	-0.98	
05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.94	0.10
			<i>For >500, Deduct</i>	-0.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.26	0.10
				<i>For >500, Deduct</i>	-0.20	
	05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.59	0.21
				<i>For >500, Deduct</i>	-0.24	
	05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.91	0.21
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.41	0.31
				<i>For >500, Deduct</i>	-0.34	
	05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.91	0.41
				<i>For >500, Deduct</i>	-0.40	
	05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.64	0.41
				<i>For >500, Deduct</i>	-0.50	
	05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.10	0.74
				<i>For >500, Deduct</i>	-0.69	
	05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.71	0.84
				<i>For >500, Deduct</i>	-0.90	
	05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.35	1.15
				<i>For >500, Deduct</i>	-1.09	
	05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.78	0.21
				<i>For >500, Deduct</i>	-0.28	
	05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.13	0.21
				<i>For >500, Deduct</i>	-0.32	
	05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.52	0.31
				<i>For >500, Deduct</i>	-0.36	
	05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.37	0.41
				<i>For >500, Deduct</i>	-0.49	
	05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.78	0.41
				<i>For >500, Deduct</i>	-0.53	
	05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.20	0.74
				<i>For >500, Deduct</i>	-0.71	
	05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	6.73	0.84
				<i>For >500, Deduct</i>	-0.90	
	05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.87	1.15
				<i>For >500, Deduct</i>	-1.18	
	05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	10.79	1.46
				<i>For >500, Deduct</i>	-1.42	
	05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.05	1.77
				<i>For >500, Deduct</i>	-1.71	
	05 15 16 00-0060			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.82	0.21
				<i>For >500, Deduct</i>	-0.28	
	05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.23	0.21
				<i>For >500, Deduct</i>	-0.34	
	05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.67	0.31
				<i>For >500, Deduct</i>	-0.39	
	05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.69	0.41
				<i>For >500, Deduct</i>	-0.55	
	05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.83	0.41
				<i>For >500, Deduct</i>	-0.54	
	05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.31	0.74
				<i>For >500, Deduct</i>	-0.73	
	05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.05	0.84
				<i>For >500, Deduct</i>	-0.96	
	05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.98	1.15
				<i>For >500, Deduct</i>	-1.21	

05 Metals

05 10 Structural Metal Framing

05 15 Wire Rope Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0069			19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	1.76	0.10
			<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	1.94	0.10
			<i>For >500, Deduct</i>	-0.33	
05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.32	0.21
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.13	0.21
			<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.52	0.21
			<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	4.21	0.41
			<i>For >500, Deduct</i>	-0.66	
05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.02	0.41
			<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.94	0.62
			<i>For >500, Deduct</i>	-1.07	
05 15 16 00-0078			7x7, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.25	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.28	0.08
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.32	0.09
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.37	0.10
			<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.44	0.10
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0084			7x19, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.42	0.09
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.46	0.10
			<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0087	LF		3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.52	0.10
			<i>For >500, Deduct</i>	-0.07	
05 15 16 00-0088	LF		1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.58	0.10
			<i>For >500, Deduct</i>	-0.08	
05 15 16 00-0089	LF		5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.89	0.10
			<i>For >500, Deduct</i>	-0.12	
05 15 16 00-0090	LF		3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.21	0.10
			<i>For >500, Deduct</i>	-0.16	
05 15 16 00-0091			Heavy Duty, Galvanized Steel, Wire Rope Thimbles <small>(05 15 16)</small>		
05 15 16 00-0092	EA		1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	12.64	3.13
05 15 16 00-0093	EA		5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.99	3.13
05 15 16 00-0094	EA		3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	15.50	3.13
05 15 16 00-0095	EA		7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	19.64	3.13
05 15 16 00-0096	EA		1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	19.66	3.13
05 15 16 00-0097	EA		9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	19.66	3.13
05 15 16 00-0098	EA		5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	21.06	3.13
05 15 16 00-0099	EA		3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	37.76	4.81
05 15 16 00-0100	EA		7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	44.74	5.84
05 15 16 00-0101	EA		1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	78.93	9.61
05 15 16 00-0102	EA		1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	112.67	13.06
05 15 16 00-0103	EA		1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	112.67	13.06
05 15 16 00-0104			Galvanized Steel, Wire Rope Clips <small>(05 15 16)</small>		
05 15 16 00-0105	EA		1/8" Diameter, Galvanized Steel, Wire Rope Clip	11.80	3.13
05 15 16 00-0106	EA		3/16" Diameter, Galvanized Steel, Wire Rope Clip	11.88	3.13
05 15 16 00-0107	EA		1/4" Diameter, Galvanized Steel, Wire Rope Clip	12.46	3.13
05 15 16 00-0108	EA		5/16" Diameter, Galvanized Steel, Wire Rope Clip	12.55	3.13
05 15 16 00-0109	EA		3/8" Diameter, Galvanized Steel, Wire Rope Clip	12.67	3.13
05 15 16 00-0110	EA		7/16" Diameter, Galvanized Steel, Wire Rope Clip	13.91	3.13
05 15 16 00-0111	EA		1/2" Diameter, Galvanized Steel, Wire Rope Clip	14.00	3.13
05 15 16 00-0112	EA		9/16" Diameter, Galvanized Steel, Wire Rope Clip	15.10	3.13
05 15 16 00-0113	EA		5/8" Diameter, Galvanized Steel, Wire Rope Clip	15.23	3.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0114	EA		3/4" Diameter, Galvanized Steel, Wire Rope Clip.....	21.92	4.18
	05 15 16 00-0115	EA		7/8" Diameter, Galvanized Steel, Wire Rope Clip.....	33.87	6.27
	05 15 16 00-0116	EA		1" Diameter, Galvanized Steel, Wire Rope Clip.....	35.81	6.27
	05 15 16 00-0117	EA		1-1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	43.94	8.35
	05 15 16 00-0118	EA		1-1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	64.14	12.54
05 15 16 00-0119				Steel, Open Swage Sockets (05 15 16)		
	05 15 16 00-0120	EA		1/4" Diameter, Steel, Open Swage Socket.....	70.29	3.13
	05 15 16 00-0121	EA		5/16" Diameter, Steel, Open Swage Socket.....	111.10	3.13
	05 15 16 00-0122	EA		3/8" Diameter, Steel, Open Swage Socket.....	115.23	4.18
	05 15 16 00-0123	EA		7/16" Diameter, Steel, Open Swage Socket.....	137.64	5.22
	05 15 16 00-0124	EA		1/2" Diameter, Steel, Open Swage Socket.....	137.64	5.22
	05 15 16 00-0125	EA		9/16" Diameter, Steel, Open Swage Socket.....	204.64	11.49
	05 15 16 00-0126	EA		5/8" Diameter, Steel, Open Swage Socket.....	204.64	11.49
	05 15 16 00-0127	EA		3/4" Diameter, Steel, Open Swage Socket.....	267.12	21.94
	05 15 16 00-0128	EA		7/8" Diameter, Steel, Open Swage Socket.....	360.79	31.33
	05 15 16 00-0129	EA		1" Diameter, Steel, Open Swage Socket.....	511.51	48.05
	05 15 16 00-0130	EA		1-1/8" Diameter, Steel, Open Swage Socket.....	682.22	75.21
	05 15 16 00-0131	EA		1-1/4" Diameter, Steel, Open Swage Socket.....	794.45	86.70
05 15 16 00-0132				Steel, Closed Swage Sockets (05 15 16)		
	05 15 16 00-0133	EA		1/4" Diameter, Steel, Closed Swage Socket.....	56.97	3.13
	05 15 16 00-0134	EA		5/16" Diameter, Steel, Closed Swage Socket.....	76.34	3.13
	05 15 16 00-0135	EA		3/8" Diameter, Steel, Closed Swage Socket.....	76.34	3.13
	05 15 16 00-0136	EA		7/16" Diameter, Steel, Closed Swage Socket.....	95.58	4.18
	05 15 16 00-0137	EA		1/2" Diameter, Steel, Closed Swage Socket.....	96.73	4.18
	05 15 16 00-0138	EA		9/16" Diameter, Steel, Closed Swage Socket.....	134.37	7.32
	05 15 16 00-0139	EA		5/8" Diameter, Steel, Closed Swage Socket.....	139.35	8.35
	05 15 16 00-0140	EA		3/4" Diameter, Steel, Closed Swage Socket.....	174.29	13.57
	05 15 16 00-0141	EA		7/8" Diameter, Steel, Closed Swage Socket.....	227.41	19.84
	05 15 16 00-0142	EA		1" Diameter, Steel, Closed Swage Socket.....	325.11	27.16
	05 15 16 00-0143	EA		1-1/8" Diameter, Steel, Closed Swage Socket.....	405.70	37.60
	05 15 16 00-0144	EA		1-1/4" Diameter, Steel, Closed Swage Socket.....	556.33	58.49
05 15 16 00-0145				Galvanized Steel, Open Spelter Sockets (05 15 16)		
	05 15 16 00-0146	EA		1/4" Galvanized Steel, Open Spelter Socket.....	116.20	3.13
	05 15 16 00-0147	EA		5/16" Galvanized Steel, Open Spelter Socket.....	119.85	3.13
	05 15 16 00-0148	EA		3/8" Galvanized Steel, Open Spelter Socket.....	119.85	3.13
	05 15 16 00-0149	EA		7/16" Galvanized Steel, Open Spelter Socket.....	135.78	6.27
	05 15 16 00-0150	EA		1/2" Galvanized Steel, Open Spelter Socket.....	135.78	6.27
	05 15 16 00-0151	EA		9/16" Galvanized Steel, Open Spelter Socket.....	180.18	10.44
	05 15 16 00-0152	EA		5/8" Galvanized Steel, Open Spelter Socket.....	180.18	10.44
	05 15 16 00-0153	EA		3/4" Galvanized Steel, Open Spelter Socket.....	230.36	15.67
	05 15 16 00-0154	EA		7/8" Galvanized Steel, Open Spelter Socket.....	346.69	26.11
	05 15 16 00-0155	EA		1" Galvanized Steel, Open Spelter Socket.....	624.34	40.73
	05 15 16 00-0156	EA		1-1/8" Galvanized Steel, Open Spelter Socket.....	749.09	65.81
	05 15 16 00-0157	EA		1-1/4" Galvanized Steel, Open Spelter Socket.....	1,011.53	86.70
05 15 16 00-0158				Galvanized Steel, Closed Spelter Sockets (05 15 16)		
	05 15 16 00-0159	EA		1/4" Galvanized Steel, Closed Spelter Socket.....	97.78	3.13
	05 15 16 00-0160	EA		5/16" Galvanized Steel, Closed Spelter Socket.....	98.22	3.13
	05 15 16 00-0161	EA		3/8" Galvanized Steel, Closed Spelter Socket.....	98.22	3.13
	05 15 16 00-0162	EA		7/16" Galvanized Steel, Closed Spelter Socket.....	111.55	5.22
	05 15 16 00-0163	EA		1/2" Galvanized Steel, Closed Spelter Socket.....	111.55	5.22
	05 15 16 00-0164	EA		9/16" Galvanized Steel, Closed Spelter Socket.....	158.09	9.40
	05 15 16 00-0165	EA		5/8" Galvanized Steel, Closed Spelter Socket.....	158.09	9.40
	05 15 16 00-0166	EA		3/4" Galvanized Steel, Closed Spelter Socket.....	196.14	13.57
	05 15 16 00-0167	EA		7/8" Galvanized Steel, Closed Spelter Socket.....	287.08	20.89
	05 15 16 00-0168	EA		1" Galvanized Steel, Closed Spelter Socket.....	434.45	32.38
	05 15 16 00-0169	EA		1-1/8" Galvanized Steel, Closed Spelter Socket.....	569.41	43.87
	05 15 16 00-0170	EA		1-1/4" Galvanized Steel, Closed Spelter Socket.....	720.08	58.49
05 15 16 00-0171				Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
	05 15 16 00-0172	EA		1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	67.92	3.13
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.62	
	05 15 16 00-0173	EA		5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	72.70	3.13
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.34	
	05 15 16 00-0174	EA		3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	81.56	3.13
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-10.67	
	05 15 16 00-0175	EA		1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	91.54	4.18
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-11.10	
	05 15 16 00-0176	EA		1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	120.21	5.22
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-14.77	
	05 15 16 00-0177	EA		1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	136.66	6.27
				For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-16.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	140.33 -16.23	8.35
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	172.70 -20.68	8.35
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	195.68 -23.76	9.40
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	189.44 -21.75	11.49
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	216.46 -24.22	13.57
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	265.82 -30.92	14.62
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	319.82 -37.17	17.76
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	367.24 -40.16	25.07
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	444.60 -49.28	29.25
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	380.80 -42.20	25.07
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	438.78 -46.23	32.38
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	598.29 -65.64	40.73
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	670.91 -72.15	48.05
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	751.34 -77.88	58.49
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	903.64 -96.38	65.81
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,163.22 -129.72	75.21
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,154.91 -125.03	80.43
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,282.60 -129.72	104.45
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	2,267.47 -261.78	135.78
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	3,753.48 -406.34	261.13
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)		
05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.57	
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.64	
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	17.43	
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.75	
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.67	
05 15 16 00-0204 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	27.84	
05 15 16 00-0205 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	33.07	
05 15 16 00-0206 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	44.24	
05 15 16 00-0207 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	58.64	
05 15 16 00-0208 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	84.64	
05 15 16 00-0209 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	100.49	
05 15 16 00-0210 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	180.84	
05 15 16 00-0211 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	207.24	
05 15 16 00-0212 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	255.82	
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)		
05 15 16 00-0214 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.06	
05 15 16 00-0215 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.29	
05 15 16 00-0216 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.22	
05 15 16 00-0217 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.79	
05 15 16 00-0218 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.09	
05 15 16 00-0219 EA 3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.54	
05 15 16 00-0220 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.64	
05 15 16 00-0221 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.14	
05 15 16 00-0222 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.18	
05 15 16 00-0223 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.05	
05 15 16 00-0224 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.06	
05 15 16 00-0225 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.36	
05 15 16 00-0226 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.00	
05 15 16 00-0227 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.94	
05 15 16 00-0228 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.95	
05 15 16 00-0229 EA 1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.35	
05 15 16 00-0230 EA 1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.53	
05 15 16 00-0231 EA 1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.43	
05 15 16 00-0232 EA 1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.18	
05 15 16 00-0233 EA 5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.83	
05 15 16 00-0234 EA 5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.57	
05 15 16 00-0235 EA 5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.55	



Metals	05	05
Structural Metal Framing	05 10	
Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	51.97	
05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	59.67	
05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	49.65	
05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	49.50	
05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	50.50	
05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	55.65	
05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	59.91	
05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	69.66	
05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	91.75	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.28	0.07
		<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.35	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.47	0.09
		<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.61	0.10
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.76	0.10
		<i>For >500, Deduct</i>	-0.11	

05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.53	0.09
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.62	0.10
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.72	0.10
		<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.91	0.10
		<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.39	0.10
		<i>For >500, Deduct</i>	-0.22	
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	2.09	0.21
		<i>For >500, Deduct</i>	-0.34	

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.28	0.07
		<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.35	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.47	0.09
		<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.61	0.10
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.76	0.10
		<i>For >500, Deduct</i>	-0.11	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.53	0.09
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.62	0.10
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.72	0.10
		<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.91	0.10
		<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.39	0.10
		<i>For >500, Deduct</i>	-0.22	
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	2.09	0.10
		<i>For >500, Deduct</i>	-0.34	

05 20 Metal Joists (05)

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing (05 20)

05 21 19 Open Web Steel Joist Framing (05 21)

05 21 19 00-0001	TON	H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging.....	2,774.07	178.06
		<i>For Welded Cross Bridging, Add</i>	222.58	
		<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	243.86	
05 21 19 00-0002	TON	H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging	2,546.47	166.93
		<i>For Welded Cross Bridging, Add</i>	197.84	
		<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	226.44	

05	Metals
05 20	Metal Joists
05 21	Steel Joist Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 21	19 00-0003	TON	LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging..... <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,076.32 205.45 286.98	166.93
05 21	19 00-0004	TON	DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging..... <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,501.47 205.45 338.00	166.93
05 21	19 00-0005	TON	CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,080.26 222.58 280.60	166.93
05 21	19 00-0006	TON	SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,873.48 205.45 382.64	166.93

05 30 Metal Decking ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 31 Steel Decking ^(05 30)

See CSI section 03 30 00 00-0000 for concrete where required.

05 31 13 Steel Floor Decking ^(05 31)

Note: Floor or roof decking

05 31 13 00-0001 Open Ribbed Galvanized Steel Deck ^(05 31 13)

05 31	13 00-0002	SF	1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	2.75 -0.11 0.11 0.73 0.81 0.45 0.15	
05 31	13 00-0003	SF	1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.14 -0.12 0.12 0.84 0.94 0.52 0.17	
05 31	13 00-0004	SF	1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.93 -0.16 0.16 1.05 1.14 0.64 0.21	
05 31	13 00-0005	SF	1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.02 -0.12 0.12 0.80 0.90 0.50 0.17	
05 31	13 00-0006	SF	1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.48 -0.14 0.14 0.93 1.03 0.58 0.19	
05 31	13 00-0007	SF	1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.36 -0.17 0.17 1.16 1.27 0.72 0.23	
05 31	13 00-0008	SF	2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.42 -0.14 0.14 0.91 0.97 0.55 0.18	
05 31	13 00-0009	SF	2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.97 -0.16 0.16 1.05 1.12 0.64 0.20	



Metals	05	05
Metal Decking	05 30	
Steel Decking	05 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0010 SF 2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	4.87	
For Painted, Deduct	-0.20	
For Perforated Or Slotted, Add	0.20	
For Site Installed Insulation Between Ribs, Add	1.29	
For Up To 100, Add	1.30	
For >100 To 500, Add	0.76	
For >500 To 1,500, Add	0.23	
05 31 13 00-0011 SF 2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	6.12	
For Painted, Deduct	-0.26	
For Perforated Or Slotted, Add	0.26	
For Site Installed Insulation Between Ribs, Add	1.60	
For Up To 100, Add	1.50	
For >100 To 500, Add	0.91	
For >500 To 1,500, Add	0.25	
05 31 13 00-0012 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	3.81	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Site Installed Insulation Between Ribs, Add	1.01	
For Up To 100, Add	1.04	
For >100 To 500, Add	0.60	
For >500 To 1,500, Add	0.18	
05 31 13 00-0013 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	4.44	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Site Installed Insulation Between Ribs, Add	1.17	
For Up To 100, Add	1.19	
For >100 To 500, Add	0.69	
For >500 To 1,500, Add	0.21	
05 31 13 00-0014 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	5.54	
For Painted, Deduct	-0.23	
For Perforated Or Slotted, Add	0.23	
For Site Installed Insulation Between Ribs, Add	1.46	
For Up To 100, Add	1.48	
For >100 To 500, Add	0.86	
For >500 To 1,500, Add	0.26	
05 31 13 00-0015 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	6.97	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Site Installed Insulation Between Ribs, Add	1.84	
For Up To 100, Add	1.82	
For >100 To 500, Add	1.07	
For >500 To 1,500, Add	0.31	
05 31 13 00-0016 SF 4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	10.22	
For Painted, Deduct	-0.45	
For Perforated Or Slotted, Add	0.45	
For Site Installed Insulation Between Ribs, Add	2.64	
For Up To 100, Add	2.04	
For >100 To 500, Add	1.36	
For >500 To 1,500, Add	0.28	
05 31 13 00-0017 SF 4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	12.58	
For Painted, Deduct	-0.58	
For Perforated Or Slotted, Add	0.58	
For Site Installed Insulation Between Ribs, Add	3.22	
For Up To 100, Add	2.19	
For >100 To 500, Add	1.57	
For >500 To 1,500, Add	0.26	
05 31 13 00-0018 SF 6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	12.68	
For Painted, Deduct	-0.53	
For Perforated Or Slotted, Add	0.53	
For Site Installed Insulation Between Ribs, Add	3.32	
For Up To 100, Add	3.08	
For >100 To 500, Add	1.87	
For >500 To 1,500, Add	0.50	
05 31 13 00-0019 SF 6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	12.28	
For Painted, Deduct	-0.55	
For Perforated Or Slotted, Add	0.55	
For Site Installed Insulation Between Ribs, Add	3.16	
For Up To 100, Add	2.35	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.31	
05 31 13 00-0020 SF 6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	15.33	
For Painted, Deduct	-0.69	
For Perforated Or Slotted, Add	0.69	
For Site Installed Insulation Between Ribs, Add	3.95	
For Up To 100, Add	2.90	
For >100 To 500, Add	1.99	
For >500 To 1,500, Add	0.38	
05 31 13 00-0021 SF 7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	13.57	
For Painted, Deduct	-0.61	
For Perforated Or Slotted, Add	0.61	
For Site Installed Insulation Between Ribs, Add	3.50	
For Up To 100, Add	2.59	
For >100 To 500, Add	1.77	
For >500 To 1,500, Add	0.34	

05	Metals
05 30	Metal Decking
05 31	Steel Decking



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31	13 00-0022	SF	7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	16.91	
			<i>For Painted, Deduct</i>	-0.76	
			<i>For Perforated Or Slotted, Add</i>	0.76	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.35	
			<i>For Up To 100, Add</i>	3.19	
			<i>For >100 To 500, Add</i>	2.19	
			<i>For >500 To 1,500, Add</i>	0.42	
05 31	13 00-0023		Cellular Galvanized Steel Deck <small>(05 31 13)</small>		
			Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31	13 00-0024	SF	1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	8.99	
			<i>For Painted, Deduct</i>	-0.40	
			<i>For Perforated Or Slotted, Add</i>	0.40	
			<i>For Insulated Cells, Add</i>	1.78	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.33	
			<i>For Up To 100, Add</i>	1.85	
			<i>For >100 To 500, Add</i>	1.22	
			<i>For >500 To 1,500, Add</i>	0.27	
05 31	13 00-0025	SF	1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	9.80	
			<i>For Painted, Deduct</i>	-0.42	
			<i>For Perforated Or Slotted, Add</i>	0.42	
			<i>For Insulated Cells, Add</i>	1.89	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.56	
			<i>For Up To 100, Add</i>	2.24	
			<i>For >100 To 500, Add</i>	1.40	
			<i>For >500 To 1,500, Add</i>	0.35	
05 31	13 00-0026	SF	1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	11.01	
			<i>For Painted, Deduct</i>	-0.50	
			<i>For Perforated Or Slotted, Add</i>	0.50	
			<i>For Insulated Cells, Add</i>	2.23	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.83	
			<i>For Up To 100, Add</i>	2.10	
			<i>For >100 To 500, Add</i>	1.43	
			<i>For >500 To 1,500, Add</i>	0.28	
05 31	13 00-0027	SF	1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	11.94	
			<i>For Painted, Deduct</i>	-0.52	
			<i>For Perforated Or Slotted, Add</i>	0.52	
			<i>For Insulated Cells, Add</i>	2.36	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.10	
			<i>For Up To 100, Add</i>	2.52	
			<i>For >100 To 500, Add</i>	1.64	
			<i>For >500 To 1,500, Add</i>	0.37	
05 31	13 00-0028	SF	3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	12.61	
			<i>For Painted, Deduct</i>	-0.56	
			<i>For Perforated Or Slotted, Add</i>	0.56	
			<i>For Insulated Cells, Add</i>	2.54	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.25	
			<i>For Up To 100, Add</i>	2.45	
			<i>For >100 To 500, Add</i>	1.66	
			<i>For >500 To 1,500, Add</i>	0.33	
05 31	13 00-0029	SF	3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	15.06	
			<i>For Painted, Deduct</i>	-0.68	
			<i>For Perforated Or Slotted, Add</i>	0.68	
			<i>For Insulated Cells, Add</i>	3.04	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.88	
			<i>For Up To 100, Add</i>	2.89	
			<i>For >100 To 500, Add</i>	1.97	
			<i>For >500 To 1,500, Add</i>	0.39	
05 31	13 00-0030	SF	3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	16.90	
			<i>For Painted, Deduct</i>	-0.76	
			<i>For Perforated Or Slotted, Add</i>	0.76	
			<i>For Insulated Cells, Add</i>	3.43	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.35	
			<i>For Up To 100, Add</i>	3.19	
			<i>For >100 To 500, Add</i>	2.19	
			<i>For >500 To 1,500, Add</i>	0.42	
05 31	13 00-0031	SF	3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	18.26	
			<i>For Painted, Deduct</i>	-0.82	
			<i>For Perforated Or Slotted, Add</i>	0.82	
			<i>For Insulated Cells, Add</i>	3.71	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.70	
			<i>For Up To 100, Add</i>	3.44	
			<i>For >100 To 500, Add</i>	2.36	
			<i>For >500 To 1,500, Add</i>	0.45	
05 31	13 00-0032	SF	4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	19.49	
			<i>For Painted, Deduct</i>	-0.91	
			<i>For Perforated Or Slotted, Add</i>	0.91	
			<i>For Insulated Cells, Add</i>	4.08	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.97	
			<i>For Up To 100, Add</i>	3.16	
			<i>For >100 To 500, Add</i>	2.35	
			<i>For >500 To 1,500, Add</i>	0.34	



Metals	05	05
Metal Decking	05 30	
Steel Decking	05 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0033 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	20.74	
For Painted, Deduct	-0.96	
For Perforated Or Slotted, Add	0.96	
For Insulated Cells, Add	4.31	
For Site Installed Insulation Between Ribs, Add	5.30	
For Up To 100, Add	3.49	
For >100 To 500, Add	2.55	
For >500 To 1,500, Add	0.39	
05 31 13 00-0034 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	21.93	
For Painted, Deduct	-1.01	
For Perforated Or Slotted, Add	1.01	
For Insulated Cells, Add	4.55	
For Site Installed Insulation Between Ribs, Add	5.61	
For Up To 100, Add	3.72	
For >100 To 500, Add	2.70	
For >500 To 1,500, Add	0.43	
05 31 13 00-0035 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	23.39	
For Painted, Deduct	-1.08	
For Perforated Or Slotted, Add	1.08	
For Insulated Cells, Add	4.85	
For Site Installed Insulation Between Ribs, Add	5.98	
For Up To 100, Add	3.98	
For >100 To 500, Add	2.89	
For >500 To 1,500, Add	0.46	
05 31 23 Steel Roof Decking (05 31)		
See CSI section 05 31 13 00-0000 for Steel floor or roof decking.		
05 31 33 Steel Form Decking (05 31)		
05 31 33 00-0001 Open Ribbed Galvanized Steel Form Deck (05 31 33)		
05 31 33 00-0002 SF 9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.52	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.04	
For >100 To 500, Add	0.52	
For >500 To 1,500, Add	0.22	
05 31 33 00-0003 SF 9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.68	
For Painted, Deduct	-0.09	
For Perforated Or Slotted, Add	0.09	
For Up To 100, Add	1.11	
For >100 To 500, Add	0.55	
For >500 To 1,500, Add	0.23	
05 31 33 00-0004 SF 9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.97	
For Painted, Deduct	-0.09	
For Perforated Or Slotted, Add	0.09	
For Up To 100, Add	1.27	
For >100 To 500, Add	0.62	
For >500 To 1,500, Add	0.27	
05 31 33 00-0005 SF 9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.22	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.43	
For >100 To 500, Add	0.69	
For >500 To 1,500, Add	0.31	
05 31 33 00-0006 SF 15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.02	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.14	
For >100 To 500, Add	0.58	
For >500 To 1,500, Add	0.23	
05 31 33 00-0007 SF 15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.18	
For Painted, Deduct	-0.11	
For Perforated Or Slotted, Add	0.11	
For Up To 100, Add	1.21	
For >100 To 500, Add	0.62	
For >500 To 1,500, Add	0.25	
05 31 33 00-0008 SF 15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.35	
For Painted, Deduct	-0.11	
For Perforated Or Slotted, Add	0.11	
For Up To 100, Add	1.31	
For >100 To 500, Add	0.66	
For >500 To 1,500, Add	0.27	
05 31 33 00-0009 SF 15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.58	
For Painted, Deduct	-0.12	
For Perforated Or Slotted, Add	0.12	
For Up To 100, Add	1.47	
For >100 To 500, Add	0.73	
For >500 To 1,500, Add	0.31	
05 31 33 00-0010 SF 1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.78	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.53	
For >100 To 500, Add	0.76	
For >500 To 1,500, Add	0.32	

05	05 Metals
	05 30 Metal Decking
	05 31 Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 33 00-0011 SF 1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.10	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	1.60	
For >100 To 500, Add	0.81	
For >500 To 1,500, Add	0.33	
05 31 33 00-0012 SF 1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.70	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.75	
For >100 To 500, Add	0.90	
For >500 To 1,500, Add	0.36	
05 31 33 00-0013 SF 1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.21	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	1.98	
For >100 To 500, Add	1.01	
For >500 To 1,500, Add	0.41	

05 36 Composite Metal Decking (05 30)

See CSI section 03 30 00 00-0000 for concrete.

05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.81	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.53	
For >100 To 500, Add	0.77	
For >500 To 1,500, Add	0.32	
05 36 00 00-0003 SF 1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.07	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.69	
For >100 To 500, Add	0.83	
For >500 To 1,500, Add	0.36	
05 36 00 00-0004 SF 1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.58	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	2.05	
For >100 To 500, Add	0.99	
For >500 To 1,500, Add	0.44	
05 36 00 00-0005 SF 1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.01	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	2.40	
For >100 To 500, Add	1.13	
For >500 To 1,500, Add	0.53	
05 36 00 00-0006 SF 2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.07	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.69	
For >100 To 500, Add	0.83	
For >500 To 1,500, Add	0.36	
05 36 00 00-0007 SF 2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.41	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	1.85	
For >100 To 500, Add	0.91	
For >500 To 1,500, Add	0.39	
05 36 00 00-0008 SF 2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.90	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	2.21	
For >100 To 500, Add	1.06	
For >500 To 1,500, Add	0.48	
05 36 00 00-0009 SF 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.37	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	2.57	
For >100 To 500, Add	1.22	
For >500 To 1,500, Add	0.57	
05 36 00 00-0010 SF 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.28	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	1.75	
For >100 To 500, Add	0.87	
For >500 To 1,500, Add	0.37	
05 36 00 00-0011 SF 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.60	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	1.96	
For >100 To 500, Add	0.96	
For >500 To 1,500, Add	0.42	



Metals	05
Metal Decking	05 30
Composite Metal Decking	05 36

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0012 SF 3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.17	
<i>For Painted, Deduct</i>	-0.16	
<i>For Perforated Or Slotted, Add</i>	0.16	
<i>For Up To 100, Add</i>	2.37	
<i>For >100 To 500, Add</i>	1.14	
<i>For >500 To 1,500, Add</i>	0.52	
05 36 00 00-0013 SF 3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.77	
<i>For Painted, Deduct</i>	-0.17	
<i>For Perforated Or Slotted, Add</i>	0.17	
<i>For Up To 100, Add</i>	2.78	
<i>For >100 To 500, Add</i>	1.31	
<i>For >500 To 1,500, Add</i>	0.61	
05 36 00 00-0014 Composite Cellular Galvanized Steel Deck <small>(05 36)</small>		
Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.		
05 36 00 00-0015 SF 1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	6.98	
<i>For Painted, Deduct</i>	-0.23	
<i>For Perforated Or Slotted, Add</i>	0.23	
<i>For Insulated Cells, Add</i>	1.05	
<i>For Up To 100, Add</i>	2.78	
<i>For >100 To 500, Add</i>	1.39	
<i>For >500 To 1,500, Add</i>	0.58	
05 36 00 00-0016 SF 1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	7.46	
<i>For Painted, Deduct</i>	-0.25	
<i>For Perforated Or Slotted, Add</i>	0.25	
<i>For Insulated Cells, Add</i>	1.10	
<i>For Up To 100, Add</i>	3.04	
<i>For >100 To 500, Add</i>	1.51	
<i>For >500 To 1,500, Add</i>	0.64	
05 36 00 00-0017 SF 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.56	
<i>For Painted, Deduct</i>	-0.25	
<i>For Perforated Or Slotted, Add</i>	0.25	
<i>For Insulated Cells, Add</i>	1.10	
<i>For Up To 100, Add</i>	3.14	
<i>For >100 To 500, Add</i>	1.55	
<i>For >500 To 1,500, Add</i>	0.66	
05 36 00 00-0018 SF 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.04	
<i>For Painted, Deduct</i>	-0.25	
<i>For Perforated Or Slotted, Add</i>	0.25	
<i>For Insulated Cells, Add</i>	1.15	
<i>For Up To 100, Add</i>	3.46	
<i>For >100 To 500, Add</i>	1.69	
<i>For >500 To 1,500, Add</i>	0.74	
05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	8.62	
<i>For Painted, Deduct</i>	-0.27	
<i>For Perforated Or Slotted, Add</i>	0.27	
<i>For Insulated Cells, Add</i>	1.22	
<i>For Up To 100, Add</i>	3.73	
<i>For >100 To 500, Add</i>	1.82	
<i>For >500 To 1,500, Add</i>	0.80	
05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.72	
<i>For Painted, Deduct</i>	-0.27	
<i>For Perforated Or Slotted, Add</i>	0.27	
<i>For Insulated Cells, Add</i>	1.22	
<i>For Up To 100, Add</i>	3.83	
<i>For >100 To 500, Add</i>	1.86	
<i>For >500 To 1,500, Add</i>	0.82	
05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.20	
<i>For Painted, Deduct</i>	-0.28	
<i>For Perforated Or Slotted, Add</i>	0.28	
<i>For Insulated Cells, Add</i>	1.26	
<i>For Up To 100, Add</i>	4.15	
<i>For >100 To 500, Add</i>	2.00	
<i>For >500 To 1,500, Add</i>	0.90	
05 36 00 00-0022 SF 2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.21	
<i>For Painted, Deduct</i>	-0.24	
<i>For Perforated Or Slotted, Add</i>	0.24	
<i>For Insulated Cells, Add</i>	1.07	
<i>For Up To 100, Add</i>	2.93	
<i>For >100 To 500, Add</i>	1.46	
<i>For >500 To 1,500, Add</i>	0.61	
05 36 00 00-0023 SF 2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	7.62	
<i>For Painted, Deduct</i>	-0.25	
<i>For Perforated Or Slotted, Add</i>	0.25	
<i>For Insulated Cells, Add</i>	1.12	
<i>For Up To 100, Add</i>	3.15	
<i>For >100 To 500, Add</i>	1.56	
<i>For >500 To 1,500, Add</i>	0.66	

05 Metals

05 30 Metal Decking

05 36 Composite Metal Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.71	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.12	
For Up To 100, Add	3.24	
For >100 To 500, Add	1.59	
For >500 To 1,500, Add	0.69	
05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.28	
For Painted, Deduct	-0.26	
For Perforated Or Slotted, Add	0.26	
For Insulated Cells, Add	1.18	
For Up To 100, Add	3.56	
For >100 To 500, Add	1.74	
For >500 To 1,500, Add	0.76	
05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	8.78	
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Insulated Cells, Add	1.24	
For Up To 100, Add	3.84	
For >100 To 500, Add	1.87	
For >500 To 1,500, Add	0.82	
05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.92	
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Insulated Cells, Add	1.24	
For Up To 100, Add	3.98	
For >100 To 500, Add	1.92	
For >500 To 1,500, Add	0.86	
05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.41	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.29	
For Up To 100, Add	4.25	
For >100 To 500, Add	2.05	
For >500 To 1,500, Add	0.92	
05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.24	
For Painted, Deduct	-0.24	
For Perforated Or Slotted, Add	0.24	
For Insulated Cells, Add	1.08	
For Up To 100, Add	2.93	
For >100 To 500, Add	1.46	
For >500 To 1,500, Add	0.61	
05 36 00 00-0030 SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	7.67	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.12	
For Up To 100, Add	3.20	
For >100 To 500, Add	1.58	
For >500 To 1,500, Add	0.68	
05 36 00 00-0031 SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.82	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.12	
For Up To 100, Add	3.35	
For >100 To 500, Add	1.64	
For >500 To 1,500, Add	0.71	
05 36 00 00-0032 SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.37	
For Painted, Deduct	-0.26	
For Perforated Or Slotted, Add	0.26	
For Insulated Cells, Add	1.19	
For Up To 100, Add	3.62	
For >100 To 500, Add	1.76	
For >500 To 1,500, Add	0.77	
05 36 00 00-0033 SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	8.91	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	3.89	
For >100 To 500, Add	1.89	
For >500 To 1,500, Add	0.83	
05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.12	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	4.10	
For >100 To 500, Add	1.97	
For >500 To 1,500, Add	0.89	
05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.51	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.29	
For Up To 100, Add	4.35	
For >100 To 500, Add	2.09	
For >500 To 1,500, Add	0.95	

05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)



Metals	05	05
Metal Decking	05 30	
Composite Metal Decking	05 36	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0037	SF		1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	5.28	
05 36 00 00-0038	SF		1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.35	
05 36 00 00-0039	SF		1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.62	
05 36 00 00-0040	SF		1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.13	
05 36 00 00-0041	SF		1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	5.81	
05 36 00 00-0042	SF		1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.74	
05 36 00 00-0043	SF		1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.94	
05 36 00 00-0044	SF		1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.41	
05 36 00 00-0045	SF		3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	6.71	
05 36 00 00-0046	SF		3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	5.39	
05 36 00 00-0047	SF		3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.53	
05 36 00 00-0048	SF		3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.10	

05 40 Cold-Formed Metal Framing ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing ^(05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)

05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.99	0.99
		<i>For Walls >10' High, Add</i>	1.00	
		<i>For Curved Wall, Add</i>	0.69	
		<i>For Up To 200, Add</i>	1.46	
		<i>For >200 To 500, Add</i>	0.73	
		<i>For 12" On Center, Add</i>	0.88	
		<i>For 24" On Center, Deduct</i>	-0.88	
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.57	0.99
		<i>For Walls >10' High, Add</i>	1.11	
		<i>For Curved Wall, Add</i>	0.72	
		<i>For Up To 200, Add</i>	1.60	
		<i>For >200 To 500, Add</i>	0.80	
		<i>For 12" On Center, Add</i>	0.99	
		<i>For 24" On Center, Deduct</i>	-0.99	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.81	0.99
		<i>For Walls >10' High, Add</i>	1.16	
		<i>For Curved Wall, Add</i>	0.75	
		<i>For Up To 200, Add</i>	1.66	
		<i>For >200 To 500, Add</i>	0.83	
		<i>For 12" On Center, Add</i>	1.04	
		<i>For 24" On Center, Deduct</i>	-1.04	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.38	1.10
		<i>For Walls >10' High, Add</i>	1.48	
		<i>For Curved Wall, Add</i>	0.79	
		<i>For Up To 200, Add</i>	2.00	
		<i>For >200 To 500, Add</i>	1.00	
		<i>For 12" On Center, Add</i>	1.35	
		<i>For 24" On Center, Deduct</i>	-1.35	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.24	1.21
		<i>For Walls >10' High, Add</i>	1.65	
		<i>For Curved Wall, Add</i>	0.82	
		<i>For Up To 200, Add</i>	2.19	
		<i>For >200 To 500, Add</i>	1.10	
		<i>For 12" On Center, Add</i>	1.51	
		<i>For 24" On Center, Deduct</i>	-1.51	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)

05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.36	0.99
		<i>For Walls >10' High, Add</i>	1.07	
		<i>For Curved Wall, Add</i>	0.72	
		<i>For Up To 200, Add</i>	1.55	
		<i>For >200 To 500, Add</i>	0.78	
		<i>For 12" On Center, Add</i>	0.95	
		<i>For 24" On Center, Deduct</i>	-0.95	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.19	1.00
		<i>For Walls >10' High, Add</i>	1.24	
		<i>For Curved Wall, Add</i>	0.76	
		<i>For Up To 200, Add</i>	1.74	
		<i>For >200 To 500, Add</i>	0.87	
		<i>For 12" On Center, Add</i>	1.11	
		<i>For 24" On Center, Deduct</i>	-1.11	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.54	1.00
		<i>For Walls >10' High, Add</i>	1.31	
		<i>For Curved Wall, Add</i>	0.79	
		<i>For Up To 200, Add</i>	1.83	
		<i>For >200 To 500, Add</i>	0.92	
		<i>For 12" On Center, Add</i>	1.18	
		<i>For 24" On Center, Deduct</i>	-1.18	

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0011	SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.26	1.21
	<i>For Walls >10' High, Add</i>	1.65	
	<i>For Curved Wall, Add</i>	0.83	
	<i>For Up To 200, Add</i>	2.20	
	<i>For >200 To 500, Add</i>	1.10	
	<i>For 12" On Center, Add</i>	1.51	
	<i>For 24" On Center, Deduct</i>	-1.51	
05 41 00 00-0012	SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.11	1.31
	<i>For Walls >10' High, Add</i>	1.82	
	<i>For Curved Wall, Add</i>	0.87	
	<i>For Up To 200, Add</i>	2.40	
	<i>For >200 To 500, Add</i>	1.20	
	<i>For 12" On Center, Add</i>	1.68	
	<i>For 24" On Center, Deduct</i>	-1.68	
05 41 00 00-0013	14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners^(05 41)		
05 41 00 00-0014	SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.37	1.37
	<i>For Walls >10' High, Add</i>	1.47	
	<i>For Curved Wall, Add</i>	0.91	
	<i>For Up To 200, Add</i>	2.08	
	<i>For >200 To 500, Add</i>	1.04	
	<i>For 12" On Center, Add</i>	1.32	
	<i>For 24" On Center, Deduct</i>	-1.32	
05 41 00 00-0015	SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.58	1.39
	<i>For Walls >10' High, Add</i>	1.52	
	<i>For Curved Wall, Add</i>	0.93	
	<i>For Up To 200, Add</i>	2.14	
	<i>For >200 To 500, Add</i>	1.07	
	<i>For 12" On Center, Add</i>	1.36	
	<i>For 24" On Center, Deduct</i>	-1.36	
05 41 00 00-0016	SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.50	1.47
	<i>For Walls >10' High, Add</i>	1.90	
	<i>For Curved Wall, Add</i>	0.98	
	<i>For Up To 200, Add</i>	2.55	
	<i>For >200 To 500, Add</i>	1.28	
	<i>For 12" On Center, Add</i>	1.74	
	<i>For 24" On Center, Deduct</i>	-1.74	
05 41 00 00-0017	SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	10.42	1.53
	<i>For Walls >10' High, Add</i>	2.08	
	<i>For Curved Wall, Add</i>	1.02	
	<i>For Up To 200, Add</i>	2.76	
	<i>For >200 To 500, Add</i>	1.38	
	<i>For 12" On Center, Add</i>	1.91	
	<i>For 24" On Center, Deduct</i>	-1.91	
05 42 Cold-Formed Metal Joist Framing^(05 40)			
05 42 13 Cold-Formed Metal Floor Joist Framing^(05 42)			
	Note: Floor or roof joist framing		
05 42 13 00-0001 Steel Joists, 20 Gauge^(05 42 13)			
05 42 13 00-0002	LF 5-1/2" - 20 Gauge Steel Joists	10.51	2.35
05 42 13 00-0003	LF 6" - 20 Gauge Steel Joists	11.46	2.96
05 42 13 00-0004	LF 7-1/4" - 20 Gauge Steel Joists	12.40	3.24
05 42 13 00-0005	LF 8" - 20 Gauge Steel Joists	13.91	3.45
05 42 13 00-0006 Steel Joists, 18 Gauge^(05 42 13)			
05 42 13 00-0007	LF 5-1/2" - 18 Gauge Steel Joists	11.71	2.61
05 42 13 00-0008	LF 6" - 18 Gauge Steel Joists	12.79	3.28
05 42 13 00-0009	LF 7-1/4" - 18 Gauge Steel Joists	13.88	3.60
05 42 13 00-0010	LF 8" - 18 Gauge Steel Joists	14.30	3.83
05 42 13 00-0011 Steel Joists, 16 Gauge^(05 42 13)			
05 42 13 00-0012	LF 7-1/4" - 16 Gauge Steel Joists	15.01	3.63
05 42 13 00-0013	LF 8" - 16 Gauge Steel Joists	15.86	3.83
05 42 13 00-0014 Steel Joists, 14 Gauge^(05 42 13)			
05 42 13 00-0015	LF 9-1/4" - 14 Gauge Steel Joists	17.90	3.83
05 42 13 00-0016	LF 11-1/2" - 14 Gauge Steel Joists	19.44	4.03
05 42 13 00-0017 Steel Joists, 12 Gauge^(05 42 13)			
05 42 13 00-0018	LF 9-1/4" - 12 Gauge Steel Joists	21.31	4.21
05 42 13 00-0019	LF 11-1/2" - 12 Gauge Steel Joists	23.31	4.43
05 42 13 00-0020 Steel Joists, 10 Gauge^(05 42 13)			



Metals	05	05
Cold-Formed Metal Framing	05 40	
Cold-Formed Metal Joist Framing	05 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists.....	24.79	4.63
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists.....	27.24	4.88
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists.....	28.31	5.10
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists.....	31.20	5.37
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43)		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	10.28	2.36
For Galvanizing, Add		
	0.95	
For Powder Coating, Add		
	0.83	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	10.55	2.36
For Galvanizing, Add		
	0.99	
For Powder Coating, Add		
	0.87	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	10.96	2.36
For Galvanizing, Add		
	1.06	
For Powder Coating, Add		
	0.94	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	9.74	2.36
For Galvanizing, Add		
	0.85	
For Powder Coating, Add		
	0.75	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	8.56	2.36
For Galvanizing, Add		
	0.65	
For Powder Coating, Add		
	0.58	
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	25.26	2.36
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	30.28	2.36
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	29.03	2.36
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	36.78	2.36
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	41.53	2.36
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel.....	5.22	0.52
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	6.84	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	7.41	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	7.84	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	10.16	
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.65	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.57	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.88	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	37.16	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	6.86	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	7.49	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	7.87	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	10.83	

05	05 Metals
	05 40 Cold-Formed Metal Framing
	05 43 Slotted Channel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
<small>Note: Includes hex bolt.</small>		
05 43 00 00-0036	EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	10.60
05 43 00 00-0037	EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	12.71
05 43 00 00-0038	EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.81
05 43 00 00-0039	EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	36.21

05 43 00 00-0040 Beam Clamp For Unistrut Channel <small>(05 43)</small>			
05 43 00 00-0041	EA 1-5/8" Channel, P2675 Unistrut Beam Clamp.....	20.26	7.83
05 43 00 00-0042	EA 1-5/8" Channel, P2676 Unistrut Beam Clamp.....	24.52	7.83
05 43 00 00-0043	EA Add For Unistrut Swivel Nut, P2676.....	2.32	

05 43 00 00-0044 Beam Clamp Clevis Hangers For Unistrut Channel <small>(05 43)</small>			
05 43 00 00-0045	EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674).....	21.74	7.83
05 43 00 00-0046	EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677).....	25.13	7.83
05 43 00 00-0047	EA Add For Unistrut Swivel Nut.....	2.32	
05 43 00 00-0048	EA 6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....	147.47	10.44

05 43 00 00-0049 Pipe And Rigid Conduit Clamps <small>(05 43)</small>			
05 43 00 00-0050 Pipe And Rigid Conduit Clamps <small>(05 43 00 00-0049)</small>			
<small>Note: Includes stainless steel (316) hardware.</small>			
05 43 00 00-0051	PR 1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.08	2.60
05 43 00 00-0052	PR 3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.26	2.60
05 43 00 00-0053	PR 1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	9.54	3.15
05 43 00 00-0054	PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	10.11	3.42
05 43 00 00-0055	PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	12.78	3.83
05 43 00 00-0056	PR 2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	12.78	3.83
05 43 00 00-0057	PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	19.68	6.43
05 43 00 00-0058	PR 3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	20.03	6.43
05 43 00 00-0059	PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	21.43	7.11
05 43 00 00-0060	PR 4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	23.71	7.67

05 43 00 00-0061 Pipe And Rigid Conduit Clamps <small>(05 43 00 00-0049)</small>			
<small>Note: Includes nylon hardware.</small>			
05 43 00 00-0062	PR 1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	9.12	2.60
05 43 00 00-0063	PR 3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	9.35	2.60
05 43 00 00-0064	PR 1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	10.63	3.15
05 43 00 00-0065	PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	11.24	3.42
05 43 00 00-0066	PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	14.56	3.83
05 43 00 00-0067	PR 2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	14.56	3.83
05 43 00 00-0068	PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	22.08	6.43
05 43 00 00-0069	PR 3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	22.56	6.43
05 43 00 00-0070	PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	23.99	7.11
05 43 00 00-0071	PR 4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	26.63	7.67

05 45 Metal Support Assemblies (05 40)

05 45 13 Mechanical Metal Supports (05 45)
See CSI section 23 05 29 00-0000 for metal supports.

05 50 Metal Fabrications (05)

05 51 Metal Stairs (05 50)

05 51 13 Metal Pan Stairs (05 51)
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.
See CSI section 05 52 13 00-0000 for handrails.

05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing <small>(05 51 13)</small>			
<small>Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.</small>			
05 51 13 00-0002	RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	698.47	30.44
	<small>For Closed Riser, Add</small>	79.64	
05 51 13 00-0003	RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	794.47	35.51
	<small>For Closed Riser, Add</small>	90.47	
05 51 13 00-0004	RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	886.67	41.60
	<small>For Closed Riser, Add</small>	100.69	
05 51 13 00-0005	SF Concrete Filled Steel Pan Landing.....	82.05	5.07
	<small>Note: Conventional shape.</small>		

05 51 19 Metal Grating Stairs (05 51)
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing <small>(05 51 19)</small>		
<small>Note: Includes steel stringers, safety nosing and 2 pipe handrail.</small>		



Metals	05	05
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 19 00-0002	RSR		3'-6" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	349.10 40.92 66.98	40.58
05 51 19 00-0003	RSR		4'-0" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	374.03 43.49 70.17	46.67
05 51 19 00-0004	RSR		5'-0" Wide Open Steel Grating Tread Metal Stair <i>For Closed Riser, Add</i> <i>For Galvanized Steel, Add</i>	415.78 48.03 76.55	54.79
05 51 19 00-0005	SF		Steel Grating Landing With Framing And 2 Pipe Handrail Note: Conventional shape. <i>For Galvanized Steel, Add</i>	66.22 11.48	5.07
05 51 33 Metal Ladders <small>(05 51)</small>					
Note: Includes factory prime.					
05 51 33 13 Vertical Metal Ladders <small>(05 51 33)</small>					
05 51 33 13-0001 Vertical Ladders <small>(05 51 33 13)</small>					
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"					
05 51 33 13-0002	VL		20" Wide Vertical Steel Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	87.81 12.40 24.81	12.17
05 51 33 13-0003	VL		24" Wide Vertical Steel Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	100.38 15.55 31.09	12.17
05 51 33 13-0004	VL		20" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	208.79 36.03 72.06	20.29
05 51 33 13-0005	VL		24" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	233.93 42.32 84.63	20.29
05 51 33 13-0006 Vertical Ladders Options <small>(05 51 33 13)</small>					
05 51 33 13-0007	EA		20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	306.27 57.55 115.09	38.05
05 51 33 13-0008	EA		24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	335.05 63.47 126.94	40.58
05 51 33 13-0009	EA		Security Cage Entry Gate With Lockable Hasp	448.49	12.68
05 51 33 13-0010	EA		6" Security Ladder Guard	969.67	76.09
05 51 33 13-0011	EA		8" Security Ladder Guard	1,159.20	88.77
05 51 33 13-0012	EA		Safety Chain Attachment	176.00	
05 51 33 13-0013 Welded Steel Ladder Cages <small>(05 51 33 13)</small>					
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.					
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages <small>(05 51 33 13-0013)</small>					
05 51 33 13-0015	EA		7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,792.76	152.19
05 51 33 13-0016	EA		8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,945.75	157.26
05 51 33 13-0017	EA		9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,067.69	162.33
05 51 33 13-0018	EA		10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,197.90	167.41
05 51 33 13-0019	EA		11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,274.28	172.48
05 51 33 13-0020	EA		12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,398.29	177.55
05 51 33 13-0021	EA		13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,507.79	182.63
05 51 33 13-0022	EA		14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,650.42	187.70
05 51 33 13-0023	EA		15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,788.91	192.78
05 51 33 13-0024	EA		16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,902.57	197.85
05 51 33 13-0025	EA		17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,041.06	202.91
05 51 33 13-0026	EA		18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,175.41	207.99
05 51 33 13-0027	EA		19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,307.70	213.06
05 51 33 13-0028	EA		20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,547.63	218.13
05 51 33 13-0029	EA		21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,619.86	223.21
05 51 33 13-0030	EA		22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,743.86	228.28
05 51 33 13-0031	EA		23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,857.52	233.35
05 51 33 13-0032	EA		24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,962.89	238.43
05 51 33 13-0033	EA		25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,196.60	243.50
05 51 33 13-0034	EA		26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,322.68	248.57
05 51 33 13-0035	EA		27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,440.47	253.65
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages <small>(05 51 33 13-0013)</small>					
05 51 33 13-0037	EA		7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,240.55	152.19
05 51 33 13-0038	EA		8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,529.32	157.26
05 51 33 13-0039	EA		9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,009.75	162.33
05 51 33 13-0040	EA		10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,247.14	167.41
05 51 33 13-0041	EA		11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,446.98	172.48
05 51 33 13-0042	EA		12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,712.03	177.55



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0043	EA		13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,188.51	182.63
05 51 33 13-0044	EA		14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,429.84	187.70
05 51 33 13-0045	EA		15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,679.08	192.78
05 51 33 13-0046	EA		16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,952.04	197.85
05 51 33 13-0047	EA		17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,438.41	202.91
05 51 33 13-0048	EA		18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,681.71	207.99
05 51 33 13-0049	EA		19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,913.18	213.06
05 51 33 13-0050	EA		20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,296.79	218.13
05 51 33 13-0051	EA		21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,727.81	223.21
05 51 33 13-0052	EA		22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,967.17	228.28
05 51 33 13-0053	EA		23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	9,212.46	233.35
05 51 33 13-0054	EA		24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	9,441.95	238.43
05 51 33 13-0055	EA		25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,031.06	243.50
05 51 33 13-0056	EA		26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,260.54	248.57
05 51 33 13-0057	EA		27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,495.95	253.65

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)

Note: Includes factory prime.

05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	261.82	50.73
			<i>For Aluminum, Add</i>	80.18	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA		4' Vertical Height Aluminum Alternating Tread Ladder	2,113.45	152.19
			<i>For Stainless Steel, Add</i>	196.80	
			<i>For Primed Steel, Deduct</i>	-191.42	
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	2,419.89	161.32
			<i>For Stainless Steel, Add</i>	240.90	
			<i>For Primed Steel, Deduct</i>	-223.30	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	2,685.76	161.32
			<i>For Stainless Steel, Add</i>	288.67	
			<i>For Primed Steel, Deduct</i>	-241.55	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	3,066.96	202.72
			<i>For Stainless Steel, Add</i>	347.24	
			<i>For Primed Steel, Deduct</i>	-256.61	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	3,367.27	209.90
			<i>For Stainless Steel, Add</i>	388.99	
			<i>For Primed Steel, Deduct</i>	-298.53	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	3,602.20	209.90
			<i>For Stainless Steel, Add</i>	453.51	
			<i>For Primed Steel, Deduct</i>	-293.53	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder.....	3,955.96	234.14
			<i>For Stainless Steel, Add</i>	497.40	
			<i>For Primed Steel, Deduct</i>	-327.55	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder.....	4,219.17	234.14
			<i>For Stainless Steel, Add</i>	546.61	
			<i>For Primed Steel, Deduct</i>	-347.07	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder.....	4,423.96	234.14
			<i>For Stainless Steel, Add</i>	623.99	
			<i>For Primed Steel, Deduct</i>	-346.65	

05 52 Metal Railings (05 52)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0003 LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	34.86	10.15
For Schedule 80 Handrail, Add	4.12	
For 11 Gauge A513 Steel Tubing, Deduct	-3.21	
For 12 Gauge A513 Steel Tubing, Deduct	-3.64	
For 14 Gauge A513 Steel Tubing, Deduct	-4.81	
For 16 Gauge A513 Steel Tubing, Deduct	-5.68	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	6.12	
For Aluminum, Clear Anodized Finish, Add	9.47	
For Aluminum, Dark Anodized Finish, Add	10.93	
For Galvanizing, Add	5.83	
For Wrought Iron, Add	3.49	
For Solid Steel Rails, Add	6.97	
For 304 Stainless Steel, Add	46.62	
For 316 Stainless Steel, Add	52.45	
For 2" Wheel Guard, Add	1.38	
For 4" High Kick Plate, Add	1.82	
For 6" High Kick Plate, Add	2.91	
For Curved Rail, Add	14.83	
For Mounting On Stairs, Add	10.46	
For Mounting On Slopes, Add	3.49	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	12.36	
For Nylon Coating, Add	2.19	
05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	37.37	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-3.76	
For 12 Gauge A513 Steel Tubing, Deduct	-4.27	
For 14 Gauge A513 Steel Tubing, Deduct	-5.64	
For 16 Gauge A513 Steel Tubing, Deduct	-6.66	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	7.17	
For Aluminum, Clear Anodized Finish, Add	11.10	
For Aluminum, Dark Anodized Finish, Add	12.81	
For Galvanizing, Add	6.83	
For Wrought Iron, Add	3.74	
For Solid Steel Rails, Add	7.47	
For 304 Stainless Steel, Add	54.66	
For 316 Stainless Steel, Add	61.49	
For 2" Wheel Guard, Add	1.62	
For 4" High Kick Plate, Add	2.14	
For 6" High Kick Plate, Add	3.42	
For Curved Rail, Add	16.34	
For Mounting On Stairs, Add	11.21	
For Mounting On Slopes, Add	3.74	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	13.61	
For Nylon Coating, Add	2.56	
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	39.88	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-4.31	
For 12 Gauge A513 Steel Tubing, Deduct	-4.90	
For 14 Gauge A513 Steel Tubing, Deduct	-6.46	
For 16 Gauge A513 Steel Tubing, Deduct	-7.64	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	8.23	
For Aluminum, Clear Anodized Finish, Add	12.73	
For Aluminum, Dark Anodized Finish, Add	14.69	
For Galvanizing, Add	7.84	
For Wrought Iron, Add	3.99	
For Solid Steel Rails, Add	7.98	
For 304 Stainless Steel, Add	62.69	
For 316 Stainless Steel, Add	70.52	
For 2" Wheel Guard, Add	1.86	
For 4" High Kick Plate, Add	2.45	
For 6" High Kick Plate, Add	3.92	
For Curved Rail, Add	17.84	
For Mounting On Stairs, Add	11.96	
For Mounting On Slopes, Add	3.99	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	14.87	
For Nylon Coating, Add	2.94	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	44.24	10.15
For Schedule 80 Handrail, Add	7.23	
For 11 Gauge A513 Steel Tubing, Deduct	-5.27	
For 12 Gauge A513 Steel Tubing, Deduct	-5.99	
For 14 Gauge A513 Steel Tubing, Deduct	-7.90	
For 16 Gauge A513 Steel Tubing, Deduct	-9.34	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	10.06	
For Aluminum, Clear Anodized Finish, Add	15.57	
For Aluminum, Dark Anodized Finish, Add	17.96	
For Galvanizing, Add	9.58	
For Wrought Iron, Add	4.42	
For Solid Steel Rails, Add	8.85	
For 304 Stainless Steel, Add	76.64	
For 316 Stainless Steel, Add	86.22	
For 2" Wheel Guard, Add	2.28	
For 4" High Kick Plate, Add	2.99	
For 6" High Kick Plate, Add	4.79	
For Curved Rail, Add	20.46	
For Mounting On Stairs, Add	13.27	
For Mounting On Slopes, Add	4.42	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	17.05	
For Nylon Coating, Add	3.59	
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	49.45	10.15
For Schedule 80 Handrail, Add	8.14	
For 11 Gauge A513 Steel Tubing, Deduct	-6.42	
For 12 Gauge A513 Steel Tubing, Deduct	-7.29	
For 14 Gauge A513 Steel Tubing, Deduct	-9.62	
For 16 Gauge A513 Steel Tubing, Deduct	-11.37	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	12.25	
For Aluminum, Clear Anodized Finish, Add	18.95	
For Aluminum, Dark Anodized Finish, Add	21.87	
For Galvanizing, Add	11.66	
For Wrought Iron, Add	4.95	
For Solid Steel Rails, Add	9.89	
For 304 Stainless Steel, Add	93.31	
For 316 Stainless Steel, Add	104.98	
For 2" Wheel Guard, Add	2.77	
For 4" High Kick Plate, Add	3.65	
For 6" High Kick Plate, Add	5.83	
For Curved Rail, Add	23.58	
For Mounting On Stairs, Add	14.84	
For Mounting On Slopes, Add	4.95	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	19.65	
For Nylon Coating, Add	4.37	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	45.80	10.15
For Schedule 80 Handrail, Add	4.12	
For 11 Gauge A513 Steel Tubing, Deduct	-5.61	
For 12 Gauge A513 Steel Tubing, Deduct	-6.38	
For 14 Gauge A513 Steel Tubing, Deduct	-8.42	
For 16 Gauge A513 Steel Tubing, Deduct	-9.95	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	10.71	
For Aluminum, Clear Anodized Finish, Add	16.58	
For Aluminum, Dark Anodized Finish, Add	19.13	
For Galvanizing, Add	10.20	
For Wrought Iron, Add	4.58	
For Solid Steel Rails, Add	9.16	
For 304 Stainless Steel, Add	81.63	
For 316 Stainless Steel, Add	91.84	
For 2" Wheel Guard, Add	2.42	
For 4" High Kick Plate, Add	3.19	
For 6" High Kick Plate, Add	5.10	
For Curved Rail, Add	21.39	
For Mounting On Stairs, Add	13.74	
For Mounting On Slopes, Add	4.58	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	17.83	
For Nylon Coating, Add	3.83	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	50.19	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-6.58	
For 12 Gauge A513 Steel Tubing, Deduct	-7.48	
For 14 Gauge A513 Steel Tubing, Deduct	-9.87	
For 16 Gauge A513 Steel Tubing, Deduct	-11.66	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	12.56	
For Aluminum, Clear Anodized Finish, Add	19.44	
For Aluminum, Dark Anodized Finish, Add	22.43	
For Galvanizing, Add	11.96	
For Wrought Iron, Add	5.02	
For Solid Steel Rails, Add	10.04	
For 304 Stainless Steel, Add	95.68	
For 316 Stainless Steel, Add	107.64	
For 2" Wheel Guard, Add	2.84	
For 4" High Kick Plate, Add	3.74	
For 6" High Kick Plate, Add	5.98	
For Curved Rail, Add	24.03	
For Mounting On Stairs, Add	15.06	
For Mounting On Slopes, Add	5.02	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	20.02	
For Nylon Coating, Add	4.49	
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	54.58	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-7.54	
For 12 Gauge A513 Steel Tubing, Deduct	-8.57	
For 14 Gauge A513 Steel Tubing, Deduct	-11.32	
For 16 Gauge A513 Steel Tubing, Deduct	-13.37	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	14.40	
For Aluminum, Clear Anodized Finish, Add	22.29	
For Aluminum, Dark Anodized Finish, Add	25.72	
For Galvanizing, Add	13.72	
For Wrought Iron, Add	5.46	
For Solid Steel Rails, Add	10.92	
For 304 Stainless Steel, Add	109.73	
For 316 Stainless Steel, Add	123.44	
For 2" Wheel Guard, Add	3.26	
For 4" High Kick Plate, Add	4.29	
For 6" High Kick Plate, Add	6.86	
For Curved Rail, Add	26.66	
For Mounting On Stairs, Add	16.37	
For Mounting On Slopes, Add	5.46	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	22.22	
For Nylon Coating, Add	5.14	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	62.20	10.15
For Schedule 80 Handrail, Add	7.23	
For 11 Gauge A513 Steel Tubing, Deduct	-9.22	
For 12 Gauge A513 Steel Tubing, Deduct	-10.48	
For 14 Gauge A513 Steel Tubing, Deduct	-13.83	
For 16 Gauge A513 Steel Tubing, Deduct	-16.34	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	17.60	
For Aluminum, Clear Anodized Finish, Add	27.24	
For Aluminum, Dark Anodized Finish, Add	31.43	
For Galvanizing, Add	16.76	
For Wrought Iron, Add	6.22	
For Solid Steel Rails, Add	12.44	
For 304 Stainless Steel, Add	134.11	
For 316 Stainless Steel, Add	150.88	
For 2" Wheel Guard, Add	3.98	
For 4" High Kick Plate, Add	5.24	
For 6" High Kick Plate, Add	8.38	
For Curved Rail, Add	31.23	
For Mounting On Stairs, Add	18.66	
For Mounting On Slopes, Add	6.22	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	26.03	
For Nylon Coating, Add	6.29	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	71.34	10.15
For Schedule 80 Handrail, Add	8.14	
For 11 Gauge A513 Steel Tubing, Deduct	-11.23	
For 12 Gauge A513 Steel Tubing, Deduct	-12.76	
For 14 Gauge A513 Steel Tubing, Deduct	-16.85	
For 16 Gauge A513 Steel Tubing, Deduct	-19.91	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	21.44	
For Aluminum, Clear Anodized Finish, Add	33.18	
For Aluminum, Dark Anodized Finish, Add	38.29	
For Galvanizing, Add	20.42	
For Wrought Iron, Add	7.13	
For Solid Steel Rails, Add	14.27	
For 304 Stainless Steel, Add	163.36	
For 316 Stainless Steel, Add	183.78	
For 2" Wheel Guard, Add	4.85	
For 4" High Kick Plate, Add	6.38	
For 6" High Kick Plate, Add	10.21	
For Curved Rail, Add	36.72	
For Mounting On Stairs, Add	21.40	
For Mounting On Slopes, Add	7.13	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	30.60	
For Nylon Coating, Add	7.66	
05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and three rails.		
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	71.21	12.17
For Schedule 80 Handrail, Add	6.01	
For 11 Gauge A513 Steel Tubing, Deduct	-10.31	
For 12 Gauge A513 Steel Tubing, Deduct	-11.72	
For 14 Gauge A513 Steel Tubing, Deduct	-15.46	
For 16 Gauge A513 Steel Tubing, Deduct	-18.28	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	19.68	
For Aluminum, Clear Anodized Finish, Add	30.46	
For Aluminum, Dark Anodized Finish, Add	35.15	
For Galvanizing, Add	18.74	
For Wrought Iron, Add	7.12	
For Solid Steel Rails, Add	14.24	
For 304 Stainless Steel, Add	149.95	
For 316 Stainless Steel, Add	168.70	
For 2" Wheel Guard, Add	4.45	
For 4" High Kick Plate, Add	5.86	
For 6" High Kick Plate, Add	9.37	
For Curved Rail, Add	35.42	
For Mounting On Stairs, Add	21.36	
For Mounting On Slopes, Add	7.12	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	29.52	
For Nylon Coating, Add	7.03	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	79.28	12.17
For Schedule 80 Handrail, Add	8.97	
For 11 Gauge A513 Steel Tubing, Deduct	-12.08	
For 12 Gauge A513 Steel Tubing, Deduct	-13.73	
For 14 Gauge A513 Steel Tubing, Deduct	-18.13	
For 16 Gauge A513 Steel Tubing, Deduct	-21.42	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	23.07	
For Aluminum, Clear Anodized Finish, Add	35.70	
For Aluminum, Dark Anodized Finish, Add	41.20	
For Galvanizing, Add	21.97	
For Wrought Iron, Add	7.93	
For Solid Steel Rails, Add	15.86	
For 304 Stainless Steel, Add	175.78	
For 316 Stainless Steel, Add	197.75	
For 2" Wheel Guard, Add	5.22	
For 4" High Kick Plate, Add	6.87	
For 6" High Kick Plate, Add	10.99	
For Curved Rail, Add	40.26	
For Mounting On Stairs, Add	23.78	
For Mounting On Slopes, Add	7.93	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	33.55	
For Nylon Coating, Add	8.24	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	87.35	12.17
For Schedule 80 Handrail, Add	8.97	
For 11 Gauge A513 Steel Tubing, Deduct	-13.86	
For 12 Gauge A513 Steel Tubing, Deduct	-15.75	
For 14 Gauge A513 Steel Tubing, Deduct	-20.79	
For 16 Gauge A513 Steel Tubing, Deduct	-24.57	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	26.46	
For Aluminum, Clear Anodized Finish, Add	40.95	
For Aluminum, Dark Anodized Finish, Add	47.25	
For Galvanizing, Add	25.20	
For Wrought Iron, Add	8.74	
For Solid Steel Rails, Add	17.47	
For 304 Stainless Steel, Add	201.60	
For 316 Stainless Steel, Add	226.80	
For 2" Wheel Guard, Add	5.99	
For 4" High Kick Plate, Add	7.88	
For 6" High Kick Plate, Add	12.60	
For Curved Rail, Add	45.11	
For Mounting On Stairs, Add	26.21	
For Mounting On Slopes, Add	8.74	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	37.59	
For Nylon Coating, Add	9.45	
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	101.37	12.17
For Schedule 80 Handrail, Add	10.16	
For 11 Gauge A513 Steel Tubing, Deduct	-16.94	
For 12 Gauge A513 Steel Tubing, Deduct	-19.26	
For 14 Gauge A513 Steel Tubing, Deduct	-25.42	
For 16 Gauge A513 Steel Tubing, Deduct	-30.04	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	32.35	
For Aluminum, Clear Anodized Finish, Add	50.06	
For Aluminum, Dark Anodized Finish, Add	57.77	
For Galvanizing, Add	30.81	
For Wrought Iron, Add	10.14	
For Solid Steel Rails, Add	20.27	
For 304 Stainless Steel, Add	246.46	
For 316 Stainless Steel, Add	277.27	
For 2" Wheel Guard, Add	7.32	
For 4" High Kick Plate, Add	9.63	
For 6" High Kick Plate, Add	15.40	
For Curved Rail, Add	53.52	
For Mounting On Stairs, Add	30.41	
For Mounting On Slopes, Add	10.14	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	44.60	
For Nylon Coating, Add	11.55	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	118.07	12.17
For Schedule 80 Handrail, Add	11.37	
For 11 Gauge A513 Steel Tubing, Deduct	-20.62	
For 12 Gauge A513 Steel Tubing, Deduct	-23.43	
For 14 Gauge A513 Steel Tubing, Deduct	-30.93	
For 16 Gauge A513 Steel Tubing, Deduct	-36.55	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	39.36	
For Aluminum, Clear Anodized Finish, Add	60.92	
For Aluminum, Dark Anodized Finish, Add	70.29	
For Galvanizing, Add	37.49	
For Wrought Iron, Add	11.81	
For Solid Steel Rails, Add	23.61	
For 304 Stainless Steel, Add	299.90	
For 316 Stainless Steel, Add	337.39	
For 2" Wheel Guard, Add	8.90	
For 4" High Kick Plate, Add	11.72	
For 6" High Kick Plate, Add	18.74	
For Curved Rail, Add	63.54	
For Mounting On Stairs, Add	35.42	
For Mounting On Slopes, Add	11.81	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	52.95	
For Nylon Coating, Add	14.06	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and four rails.

05	Metals
05 50	Metal Fabrications
05 52	Metal Railings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0021	LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	85.91	14.20
	For Schedule 80 Handrail, Add	8.16	
	For 11 Gauge A513 Steel Tubing, Deduct	-12.65	
	For 12 Gauge A513 Steel Tubing, Deduct	-14.38	
	For 14 Gauge A513 Steel Tubing, Deduct	-18.98	
	For 16 Gauge A513 Steel Tubing, Deduct	-22.43	
	For Additional Off Set Handrail, ADA Attachment, Add	14.17	
	For Aluminum, Satin Finish, Add	24.15	
	For Aluminum, Clear Anodized Finish, Add	37.38	
	For Aluminum, Dark Anodized Finish, Add	43.13	
	For Galvanizing, Add	23.00	
	For Wrought Iron, Add	8.59	
	For Solid Steel Rails, Add	17.18	
	For 304 Stainless Steel, Add	184.03	
	For 316 Stainless Steel, Add	207.04	
	For 2" Wheel Guard, Add	5.46	
	For 4" High Kick Plate, Add	7.19	
	For 6" High Kick Plate, Add	11.50	
	For Curved Rail, Add	43.03	
	For Mounting On Stairs, Add	25.77	
	For Mounting On Slopes, Add	8.59	
	For Post Base Flange With Screws, Add Per Post	20.34	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
	For Custom Design Or Shapes (Square Tops, etc), Add	35.86	
	For Nylon Coating, Add	8.63	
05 52 13 00-0022	LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	93.08	14.20
	For Schedule 80 Handrail, Add	11.86	
	For 11 Gauge A513 Steel Tubing, Deduct	-14.23	
	For 12 Gauge A513 Steel Tubing, Deduct	-16.17	
	For 14 Gauge A513 Steel Tubing, Deduct	-21.34	
	For 16 Gauge A513 Steel Tubing, Deduct	-25.23	
	For Additional Off Set Handrail, ADA Attachment, Add	14.17	
	For Aluminum, Satin Finish, Add	27.17	
	For Aluminum, Clear Anodized Finish, Add	42.04	
	For Aluminum, Dark Anodized Finish, Add	48.51	
	For Galvanizing, Add	25.87	
	For Wrought Iron, Add	9.31	
	For Solid Steel Rails, Add	18.62	
	For 304 Stainless Steel, Add	206.98	
	For 316 Stainless Steel, Add	232.85	
	For 2" Wheel Guard, Add	6.14	
	For 4" High Kick Plate, Add	8.09	
	For 6" High Kick Plate, Add	12.94	
	For Curved Rail, Add	47.33	
	For Mounting On Stairs, Add	27.92	
	For Mounting On Slopes, Add	9.31	
	For Post Base Flange With Screws, Add Per Post	20.34	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
	For Custom Design Or Shapes (Square Tops, etc), Add	39.44	
	For Nylon Coating, Add	9.70	
05 52 13 00-0023	LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	100.24	14.20
	For Schedule 80 Handrail, Add	11.86	
	For 11 Gauge A513 Steel Tubing, Deduct	-15.80	
	For 12 Gauge A513 Steel Tubing, Deduct	-17.96	
	For 14 Gauge A513 Steel Tubing, Deduct	-23.71	
	For 16 Gauge A513 Steel Tubing, Deduct	-28.02	
	For Additional Off Set Handrail, ADA Attachment, Add	14.17	
	For Aluminum, Satin Finish, Add	30.17	
	For Aluminum, Clear Anodized Finish, Add	46.70	
	For Aluminum, Dark Anodized Finish, Add	53.88	
	For Galvanizing, Add	28.74	
	For Wrought Iron, Add	10.02	
	For Solid Steel Rails, Add	20.05	
	For 304 Stainless Steel, Add	229.89	
	For 316 Stainless Steel, Add	258.62	
	For 2" Wheel Guard, Add	6.82	
	For 4" High Kick Plate, Add	8.98	
	For 6" High Kick Plate, Add	14.37	
	For Curved Rail, Add	51.62	
	For Mounting On Stairs, Add	30.07	
	For Mounting On Slopes, Add	10.02	
	For Post Base Flange With Screws, Add Per Post	20.34	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
	For Custom Design Or Shapes (Square Tops, etc), Add	43.02	
	For Nylon Coating, Add	10.78	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	116.20	14.20
For Schedule 80 Handrail, Add	13.35	
For 11 Gauge A513 Steel Tubing, Deduct	-19.32	
For 12 Gauge A513 Steel Tubing, Deduct	-21.95	
For 14 Gauge A513 Steel Tubing, Deduct	-28.97	
For 16 Gauge A513 Steel Tubing, Deduct	-34.24	
For Additional Off Set Handrail, ADA Attachment, Add	14.17	
For Aluminum, Satin Finish, Add	36.88	
For Aluminum, Clear Anodized Finish, Add	57.07	
For Aluminum, Dark Anodized Finish, Add	65.85	
For Galvanizing, Add	35.12	
For Wrought Iron, Add	11.62	
For Solid Steel Rails, Add	23.24	
For 304 Stainless Steel, Add	280.96	
For 316 Stainless Steel, Add	316.08	
For 2" Wheel Guard, Add	8.34	
For 4" High Kick Plate, Add	10.98	
For 6" High Kick Plate, Add	17.56	
For Curved Rail, Add	61.20	
For Mounting On Stairs, Add	34.86	
For Mounting On Slopes, Add	11.62	
For Post Base Flange With Screws, Add Per Post	20.34	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
For Custom Design Or Shapes (Square Tops, etc), Add	51.00	
For Nylon Coating, Add	13.17	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	134.90	14.20
For Schedule 80 Handrail, Add	14.86	
For 11 Gauge A513 Steel Tubing, Deduct	-23.43	
For 12 Gauge A513 Steel Tubing, Deduct	-26.63	
For 14 Gauge A513 Steel Tubing, Deduct	-35.15	
For 16 Gauge A513 Steel Tubing, Deduct	-41.54	
For Additional Off Set Handrail, ADA Attachment, Add	14.17	
For Aluminum, Satin Finish, Add	44.73	
For Aluminum, Clear Anodized Finish, Add	69.23	
For Aluminum, Dark Anodized Finish, Add	79.88	
For Galvanizing, Add	42.60	
For Wrought Iron, Add	13.49	
For Solid Steel Rails, Add	26.98	
For 304 Stainless Steel, Add	340.80	
For 316 Stainless Steel, Add	383.40	
For 2" Wheel Guard, Add	10.12	
For 4" High Kick Plate, Add	13.31	
For 6" High Kick Plate, Add	21.30	
For Curved Rail, Add	72.42	
For Mounting On Stairs, Add	40.47	
For Mounting On Slopes, Add	13.49	
For Post Base Flange With Screws, Add Per Post	20.34	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
For Custom Design Or Shapes (Square Tops, etc), Add	60.35	
For Nylon Coating, Add	15.98	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.00	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.75	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	13.40	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	22.66	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	11.77	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel.....	12.17	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel.....	13.03	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel.....	26.15	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	5.31	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	10.85	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	14.25	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	21.24	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	34.74	6.09
			<i>For Schedule 80 Handrail, Add</i>	2.30	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.29	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.88	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.44	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.61	
			<i>For Stainless Steel, Add</i>	39.04	
			<i>For Aluminum, Satin Finish, Add</i>	8.20	
			<i>For Curved Rail, Add</i>	10.42	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	12.69	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	14.64	
			<i>For Galvanized Finish, Add</i>	5.86	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	35.37	6.09
			<i>For Schedule 80 Handrail, Add</i>	2.66	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.43	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.04	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.65	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.86	
			<i>For Stainless Steel, Add</i>	40.30	
			<i>For Aluminum, Satin Finish, Add</i>	8.46	
			<i>For Curved Rail, Add</i>	10.61	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.10	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.11	
			<i>For Galvanized Finish, Add</i>	6.05	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	36.00	6.09
			<i>For Schedule 80 Handrail, Add</i>	7.60	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.57	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.20	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.86	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.10	
			<i>For Stainless Steel, Add</i>	41.56	
			<i>For Aluminum, Satin Finish, Add</i>	8.73	
			<i>For Curved Rail, Add</i>	10.80	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.51	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.59	
			<i>For Galvanized Finish, Add</i>	6.23	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.25	6.09
			<i>For Schedule 80 Handrail, Add</i>	3.34	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.17	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.01	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.25	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.93	
			<i>For Stainless Steel, Add</i>	56.06	
			<i>For Aluminum, Satin Finish, Add</i>	11.77	
			<i>For Curved Rail, Add</i>	12.98	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	18.22	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	21.02	
			<i>For Galvanized Finish, Add</i>	8.41	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	49.23	6.09
			<i>For Schedule 80 Handrail, Add</i>	3.64	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.48	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-8.50	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.22	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-13.26	
			<i>For Stainless Steel, Add</i>	68.02	
			<i>For Aluminum, Satin Finish, Add</i>	14.28	
			<i>For Curved Rail, Add</i>	14.77	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	22.11	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	25.51	
			<i>For Galvanized Finish, Add</i>	10.20	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	42.14	6.39
			<i>For Schedule 80 Handrail, Add</i>	2.30	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.92	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.73	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.88	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.50	
			<i>For Stainless Steel, Add</i>	53.84	
			<i>For Aluminum, Satin Finish, Add</i>	11.31	
			<i>For Curved Rail, Add</i>	12.64	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.50	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	20.19	
			<i>For Galvanized Finish, Add</i>	8.08	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.03	6.39
For Schedule 80 Handrail, Add	2.66	
For 11 Gauge A513 Steel Tubing, Deduct	-6.12	
For 12 Gauge A513 Steel Tubing, Deduct	-6.95	
For 14 Gauge A513 Steel Tubing, Deduct	-9.18	
For 16 Gauge A513 Steel Tubing, Deduct	-10.85	
For Stainless Steel, Add	55.62	
For Aluminum, Satin Finish, Add	11.68	
For Curved Rail, Add	12.91	
For Aluminum, Clear Anodized Finish, Add	18.08	
For Aluminum, Dark Anodized Finish, Add	20.86	
For Galvanized Finish, Add	8.34	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.69	6.39
For Schedule 80 Handrail, Add	7.60	
For 11 Gauge A513 Steel Tubing, Deduct	-6.26	
For 12 Gauge A513 Steel Tubing, Deduct	-7.12	
For 14 Gauge A513 Steel Tubing, Deduct	-9.40	
For 16 Gauge A513 Steel Tubing, Deduct	-11.10	
For Stainless Steel, Add	56.94	
For Aluminum, Satin Finish, Add	11.96	
For Curved Rail, Add	13.11	
For Aluminum, Clear Anodized Finish, Add	18.51	
For Aluminum, Dark Anodized Finish, Add	21.35	
For Galvanized Finish, Add	8.54	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	53.80	6.39
For Schedule 80 Handrail, Add	3.34	
For 11 Gauge A513 Steel Tubing, Deduct	-8.49	
For 12 Gauge A513 Steel Tubing, Deduct	-9.65	
For 14 Gauge A513 Steel Tubing, Deduct	-12.73	
For 16 Gauge A513 Steel Tubing, Deduct	-15.05	
For Stainless Steel, Add	77.16	
For Aluminum, Satin Finish, Add	16.20	
For Curved Rail, Add	16.14	
For Aluminum, Clear Anodized Finish, Add	25.08	
For Aluminum, Dark Anodized Finish, Add	28.94	
For Galvanized Finish, Add	11.57	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	60.41	6.39
For Schedule 80 Handrail, Add	3.64	
For 11 Gauge A513 Steel Tubing, Deduct	-9.94	
For 12 Gauge A513 Steel Tubing, Deduct	-11.30	
For 14 Gauge A513 Steel Tubing, Deduct	-14.91	
For 16 Gauge A513 Steel Tubing, Deduct	-17.62	
For Stainless Steel, Add	90.38	
For Aluminum, Satin Finish, Add	18.98	
For Curved Rail, Add	18.12	
For Aluminum, Clear Anodized Finish, Add	29.37	
For Aluminum, Dark Anodized Finish, Add	33.89	
For Galvanized Finish, Add	13.56	
05 52 13 00-0054 Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	22.83	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing.....	29.85	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket.....	56.85	
For Stainless Steel, Add	52.82	
05 53 Metal Gratings (05 50)		
05 53 13 Bar Gratings (05 53)		
05 53 13 00-0001 Welded Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating.....	8.20	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.01	
For 304 Stainless Steel, Add	19.16	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	1.74	
For Crossbars At 2" On-Center, Add	0.64	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.64	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating.....	10.67	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	27.09	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.46	
For Crossbars At 2" On-Center, Add	0.91	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53	13 00-0005	SF	1" x 1/8" Steel, Welded Grating.....	9.79	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.29	
			For 304 Stainless Steel, Add	24.27	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	2.21	
			For Crossbars At 2" On-Center, Add	0.82	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.68	
05 53	13 00-0006	SF	1" x 3/16" Steel, Welded Grating.....	13.14	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.85	
			For 304 Stainless Steel, Add	35.02	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.19	
			For Crossbars At 2" On-Center, Add	1.18	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.77	
05 53	13 00-0007	SF	1" x 1/4" Steel, Welded Grating.....	16.50	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.43	
			For 304 Stainless Steel, Add	45.81	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.17	
			For Crossbars At 2" On-Center, Add	1.54	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.85	
05 53	13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	11.40	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.56	
			For 304 Stainless Steel, Add	29.44	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	2.68	
			For Crossbars At 2" On-Center, Add	0.99	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.72	
05 53	13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	15.48	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.25	
			For 304 Stainless Steel, Add	42.53	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.87	
			For Crossbars At 2" On-Center, Add	1.43	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.83	
05 53	13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	13.00	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.83	
			For 304 Stainless Steel, Add	34.57	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.14	
			For Crossbars At 2" On-Center, Add	1.16	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.76	
05 53	13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	18.44	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.67	
			For 304 Stainless Steel, Add	50.40	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.58	
			For Crossbars At 2" On-Center, Add	1.70	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.23	
05 53	13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	23.54	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	66.77	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.07	
			For Crossbars At 2" On-Center, Add	2.25	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.36	
05 53	13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	20.93	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.09	
			For 304 Stainless Steel, Add	58.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.31	
			For Crossbars At 2" On-Center, Add	1.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating .....23.26		1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.49	
For 304 Stainless Steel, Add	65.87	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.99	
For Crossbars At 2" On-Center, Add	2.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating .....25.73		1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.91	
For 304 Stainless Steel, Add	73.80	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.71	
For Crossbars At 2" On-Center, Add	2.48	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.41	
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating .....28.07		1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.31	
For 304 Stainless Steel, Add	81.31	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.40	
For Crossbars At 2" On-Center, Add	2.74	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.47	
05 53 13 00-0017 Pressure Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....14.68		1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.04	
For 304 Stainless Steel, Add	23.29	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.64	
For Crossbars At 2" On-Center, Add	1.34	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.81	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....17.86		1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.56	
For 304 Stainless Steel, Add	29.24	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.56	
For Crossbars At 2" On-Center, Add	1.69	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.88	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....16.04		1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.26	
For 304 Stainless Steel, Add	25.84	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.03	
For Crossbars At 2" On-Center, Add	1.49	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.84	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....21.50		1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.16	
For 304 Stainless Steel, Add	36.05	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	27.94	
For Bearing Bars At 15/16" On-Center, Add	5.63	
For Crossbars At 2" On-Center, Add	2.08	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.98	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....17.86		1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.56	
For 304 Stainless Steel, Add	29.24	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.56	
For Crossbars At 2" On-Center, Add	1.69	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....		24.02	1.11
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		3.57	
		For 304 Stainless Steel, Add		40.77	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		6.36	
		For Crossbars At 2" On-Center, Add		2.35	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.04	
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....		19.77	1.11
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		2.88	
		For 304 Stainless Steel, Add		32.82	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		5.12	
		For Crossbars At 2" On-Center, Add		1.89	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-1.93	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....		27.18	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.01	
		For 304 Stainless Steel, Add		45.73	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 7/16" On-Center, Add		35.44	
		For Bearing Bars At 15/16" On-Center, Add		7.14	
		For Crossbars At 2" On-Center, Add		2.64	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.45	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....		29.85	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.45	
		For 304 Stainless Steel, Add		50.72	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		7.92	
		For Crossbars At 2" On-Center, Add		2.93	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.51	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....		32.02	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.80	
		For 304 Stainless Steel, Add		54.78	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		8.55	
		For Crossbars At 2" On-Center, Add		3.16	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.57	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....		34.11	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		5.14	
		For 304 Stainless Steel, Add		58.69	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		9.16	
		For Crossbars At 2" On-Center, Add		3.39	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.62	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....		35.91	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		5.44	
		For 304 Stainless Steel, Add		62.06	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		9.69	
		For Crossbars At 2" On-Center, Add		3.58	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.67	
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating <small>(05 53 13 00-0017)</small>			
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.			
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....		17.46	1.11
		For Bearing Bars At 15/16" On-Center, Add		4.45	
		For Crossbars At 2" On-Center, Add		1.64	
		For Set In Place Without Bolting, Deduct		-1.87	
		For Powder Coating, Add		2.28	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....		23.70	1.11
		For Bearing Bars At 15/16" On-Center, Add		6.27	
		For Crossbars At 2" On-Center, Add		2.32	
		For Set In Place Without Bolting, Deduct		-2.03	
		For Powder Coating, Add		3.22	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....		22.36	1.11
		For Bearing Bars At 15/16" On-Center, Add		5.88	
		For Crossbars At 2" On-Center, Add		2.17	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting, Deduct		-2.00	
		For Powder Coating, Add		3.02	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	30.43	1.11
For Bearing Bars At 7/16" On-Center, Add	40.89	
For Bearing Bars At 15/16" On-Center, Add	8.23	
For Crossbars At 2" On-Center, Add	3.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.20	
For Powder Coating, Add	4.23	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	25.91	1.11
For Bearing Bars At 15/16" On-Center, Add	6.91	
For Crossbars At 2" On-Center, Add	2.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.09	
For Powder Coating, Add	3.55	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	34.71	1.11
For Bearing Bars At 15/16" On-Center, Add	9.48	
For Crossbars At 2" On-Center, Add	3.51	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.31	
For Powder Coating, Add	4.87	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	29.25	1.11
For Bearing Bars At 15/16" On-Center, Add	7.89	
For Crossbars At 2" On-Center, Add	2.92	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.17	
For Powder Coating, Add	4.05	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	39.12	1.11
For Bearing Bars At 7/16" On-Center, Add	53.49	
For Bearing Bars At 15/16" On-Center, Add	10.77	
For Crossbars At 2" On-Center, Add	3.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.42	
For Powder Coating, Add	5.53	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	43.35	1.11
For Bearing Bars At 15/16" On-Center, Add	12.01	
For Crossbars At 2" On-Center, Add	4.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.52	
For Powder Coating, Add	6.17	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating.....	48.36	1.11
For Bearing Bars At 15/16" On-Center, Add	13.47	
For Crossbars At 2" On-Center, Add	4.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.65	
For Powder Coating, Add	6.92	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	52.28	1.11
For Bearing Bars At 15/16" On-Center, Add	14.61	
For Crossbars At 2" On-Center, Add	5.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.75	
For Powder Coating, Add	7.51	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	56.97	1.11
For Bearing Bars At 15/16" On-Center, Add	15.98	
For Crossbars At 2" On-Center, Add	5.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.86	
For Powder Coating, Add	8.21	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....	23.44	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.95	
For 304 Stainless Steel, Add	35.17	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.57	
For Crossbars At 2" On-Center, Add	1.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....	26.05	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.19	
For 304 Stainless Steel, Add	39.49	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	15.24	
For Crossbars At 2" On-Center, Add	1.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0048	SF		1-1/2" x 3/16" Steel, Swaged Grating.....	28.61	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.38	
			For 304 Stainless Steel, Add	42.89	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	16.56	
			For Crossbars At 2" On-Center, Add	2.07	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.48	
05 53 13 00-0049	SF		1-3/4" x 3/16" Steel, Swaged Grating.....	32.62	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.75	
			For 304 Stainless Steel, Add	49.54	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	19.12	
			For Crossbars At 2" On-Center, Add	2.39	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.58	
05 53 13 00-0050	SF		2" x 3/16" Steel, Swaged Grating.....	36.65	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.12	
			For 304 Stainless Steel, Add	56.22	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	21.70	
			For Crossbars At 2" On-Center, Add	2.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.68	
05 53 13 00-0051	SF		2-1/4" x 3/16" Steel, Swaged Grating.....	40.66	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.49	
			For 304 Stainless Steel, Add	62.87	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	24.27	
			For Crossbars At 2" On-Center, Add	3.03	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.78	
05 53 13 00-0052	SF		2-1/2" x 3/16" Steel, Swaged Grating.....	44.68	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	69.54	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	26.84	
			For Crossbars At 2" On-Center, Add	3.36	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.88	
05 53 13 00-0053			Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054	SF		1" x 1/8" Aluminum, Swaged Grating	20.64	1.11
			For Bearing Bars At 15/16" On-Center, Add	11.78	
			For Crossbars At 2" On-Center, Add	1.47	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.95	
			For Powder Coating, Add	2.76	
05 53 13 00-0055	SF		1" x 3/16" Aluminum, Swaged Grating	26.80	1.11
			For Bearing Bars At 15/16" On-Center, Add	15.72	
			For Crossbars At 2" On-Center, Add	1.97	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.11	
			For Powder Coating, Add	3.69	
05 53 13 00-0056	SF		1-1/4" x 1/8" Aluminum, Swaged Grating.....	23.41	1.11
			For Bearing Bars At 15/16" On-Center, Add	13.56	
			For Crossbars At 2" On-Center, Add	1.69	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.02	
			For Powder Coating, Add	3.18	
05 53 13 00-0057	SF		1-1/4" x 3/16" Aluminum, Swaged Grating	30.94	1.11
			For Bearing Bars At 15/16" On-Center, Add	18.37	
			For Crossbars At 2" On-Center, Add	2.30	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.21	
			For Powder Coating, Add	4.31	
05 53 13 00-0058	SF		1-1/2" x 1/8" Aluminum, Swaged Grating.....	26.69	1.11
			For Bearing Bars At 15/16" On-Center, Add	15.65	
			For Crossbars At 2" On-Center, Add	1.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.11	
			For Powder Coating, Add	3.67	
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating	35.38	1.11
			For Bearing Bars At 15/16" On-Center, Add	21.22	
			For Crossbars At 2" On-Center, Add	2.65	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.32	
			For Powder Coating, Add	4.97	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	40.50	1.11
For Bearing Bars At 15/16" On-Center, Add	24.49	
For Crossbars At 2" On-Center, Add	3.06	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.45	
For Powder Coating, Add	5.74	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	45.58	1.11
For Bearing Bars At 15/16" On-Center, Add	27.74	
For Crossbars At 2" On-Center, Add	3.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.58	
For Powder Coating, Add	6.50	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	50.70	1.11
For Bearing Bars At 15/16" On-Center, Add	31.02	
For Crossbars At 2" On-Center, Add	3.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.71	
For Powder Coating, Add	7.27	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	55.78	1.11
For Bearing Bars At 15/16" On-Center, Add	34.27	
For Crossbars At 2" On-Center, Add	4.28	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.83	
For Powder Coating, Add	8.03	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	43.72	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.99	
For 304 Stainless Steel, Add	35.64	
For 5/8" Clear Opening, Add	14.31	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.53	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	51.31	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	42.16	
For 5/8" Clear Opening, Add	16.93	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.72	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	47.21	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.16	
For 304 Stainless Steel, Add	38.64	
For 5/8" Clear Opening, Add	15.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.62	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	54.21	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	44.65	
For 5/8" Clear Opening, Add	17.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.79	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	50.11	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.30	
For 304 Stainless Steel, Add	41.13	
For 5/8" Clear Opening, Add	16.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	59.59	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.75	
For 304 Stainless Steel, Add	49.27	
For 5/8" Clear Opening, Add	19.79	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.93	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	53.41	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	43.53	
For 5/8" Clear Opening, Add	17.48	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.10	

05	Metals
05 50	Metal Fabrications
05 53	Metal Gratings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073	SF		1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	63.55	1.37
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.92	
			<i>For 304 Stainless Steel, Add</i>	52.24	
			<i>For 5/8" Clear Opening, Add</i>	20.98	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.36	
05 53 13 00-0074	SF		1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	68.72	1.37
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.17	
			<i>For 304 Stainless Steel, Add</i>	56.68	
			<i>For 5/8" Clear Opening, Add</i>	22.76	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.49	
05 53 13 00-0075	SF		2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	80.27	1.37
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.72	
			<i>For 304 Stainless Steel, Add</i>	66.60	
			<i>For 5/8" Clear Opening, Add</i>	26.75	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.77	
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	84.30	1.37
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.91	
			<i>For 304 Stainless Steel, Add</i>	70.06	
			<i>For 5/8" Clear Opening, Add</i>	28.14	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.87	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	87.88	1.37
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.09	
			<i>For 304 Stainless Steel, Add</i>	73.14	
			<i>For 5/8" Clear Opening, Add</i>	29.37	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.96	
05 53 13 00-0078			Aluminum, Riveted Grating <small>(05 53 13 00-0064)</small>		
			Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	44.26	1.11
			<i>For 5/8" Clear Opening, Add</i>	14.50	
			<i>For Powder Coating, Add</i>	6.30	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.54	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	52.58	1.11
			<i>For 5/8" Clear Opening, Add</i>	17.37	
			<i>For Powder Coating, Add</i>	7.55	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.75	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	48.71	1.11
			<i>For 5/8" Clear Opening, Add</i>	16.04	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	6.97	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.66	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	56.83	1.11
			<i>For 5/8" Clear Opening, Add</i>	18.84	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	8.19	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.86	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	54.65	1.11
			<i>For 5/8" Clear Opening, Add</i>	18.08	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	7.86	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.80	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	65.93	1.11
			<i>For 5/8" Clear Opening, Add</i>	21.98	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	9.56	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.09	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	58.72	1.11
			<i>For 5/8" Clear Opening, Add</i>	19.49	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	8.47	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.91	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	73.03	1.11
			<i>For 5/8" Clear Opening, Add</i>	24.43	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	10.62	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.26	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	80.54	1.11
			<i>For 5/8" Clear Opening, Add</i>	27.02	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Powder Coating, Add</i>	11.75	
			<i>For Set In Place Without Bolting, Deduct</i>	-3.45	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53	13 00-0088	SF	2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	95.96 32.34 0.16 14.06 -3.84	1.11
05 53	13 00-0089	SF	2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	104.71 35.36 0.16 15.37 -4.06	1.11
05 53	13 00-0090	SF	2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	116.44 39.40 0.16 17.13 -4.35	1.11
05 54 Metal Floor Plates (05 50)					
05 54 00 00-0001 Steel Floor Plates (05 54)					
	05 54 00 00-0002	SF	16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	13.88	1.32
	05 54 00 00-0003	SF	14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	15.79	1.32
	05 54 00 00-0004	SF	12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	19.64	1.32
	05 54 00 00-0005	SF	1/8" Steel Raised Or Diamond Pattern Floor Plates.....	26.22	1.42
	05 54 00 00-0006	SF	1/4" Steel Raised Or Diamond Pattern Floor Plates.....	33.13	1.52
05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)					
	05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	24.49 3.34	1.11
	05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	28.10 3.84	1.32
	05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	31.72 4.33	1.42
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)					
	05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	27.32	1.52
	05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.63	1.73
	05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	42.18	2.03
05 55 Metal Stair Treads and Nosings (05 50)					
05 55 13 Metal Stair Treads (05 55)					
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)					
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.					
	05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	60.15 12.46	6.44
	05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	66.07 13.94	6.44
	05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	71.97 15.42	6.44
	05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	77.91 16.90	6.44
	05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	83.79 18.37	6.44
05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)					
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.					
	05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	83.11	6.44
	05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	91.87	6.44
	05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	100.66	6.44
	05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	109.43	6.44
	05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	118.22	6.44
05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)					
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.					
	05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	32.47	6.44
	05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	37.83	6.44
	05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	40.19	6.44
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)					
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.					

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....47.27 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....47.71 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....57.36 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....65.81 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....76.83 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0023 Stair Landing Treads (05 55 13)		
05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads .....83.79 <i>For 3/8" Thick, Add</i>	18.37	6.44
05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....118.22		6.44
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads .....77.80 <i>For Epoxy Sealed For Corrosive Environment, Add</i>	3.72	6.44
05 55 13 00-0030 Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread.....481.17 <i>For Closed Riser, Add</i>	41.00	40.58
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread.....543.26 <i>For Closed Riser, Add</i>	46.14	46.67
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread.....600.39 <i>For Closed Riser, Add</i>	50.92	54.79
05 55 16 Metal Stair Nosings (05 55)		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....25.80 <i>For 3/8" Thick, Add</i>	4.69	4.39
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....31.51 <i>For 3/8" Thick, Add</i>	6.12	4.39
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....44.25 <i>For 3/8" Thick, Add</i>	9.31	4.39
05 55 16 00-0005 Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing .....29.97 <i>For 3/8" Thick, Add</i>	5.74	4.39
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing .....37.00 <i>For 3/8" Thick, Add</i>	7.49	4.39
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing .....50.91 <i>For 3/8" Thick, Add</i>	10.97	4.39
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....21.92		4.39
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....24.68		4.39
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....26.78		4.39
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....33.32		4.39
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....22.67		4.39
05 55 16 00-0015 LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....25.01		4.39
05 55 16 00-0016 LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....27.34		4.39
05 55 16 00-0017 LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....25.93		4.39



Metals	05	05
Metal Fabrications	05 50	
Metal Castings	05 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 56 Metal Castings (05 50)

05 56 00 00-0001 Castings (05 56)

05 56 00 00-0002	LB	Up To 150 LB, Miscellaneous Castings, Light Section	3.92	0.50
05 56 00 00-0003	LB	>150 LB, Miscellaneous Castings, Heavy Section.....	6.43	0.40

05 58 Formed Metal Fabrications (05 50)

05 58 16 Formed Metal Enclosures (05 58)

05 58 16 00-0001 Drip Pan (05 58 16)

05 58 16 00-0002	SF	Stainless Steel Drip Pan	94.50	7.01
05 58 16 00-0003	SF	Galvanized Steel Drip Pan.....	93.39	7.01
05 58 16 00-0004	SF	Aluminum Drip Pan	65.84	5.60
05 58 16 00-0005	SF	Plastic Drip Pan	18.56	4.91

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001 Protective Guard Rails (05 58 23)

Note: Includes painted finish.

05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Armor Guard.

05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0004	EA	1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	173.11	21.08
05 58 23 00-0005	EA	2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	202.70	21.08
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	230.61	21.08
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	260.21	21.08
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	288.28	21.08
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	324.67	21.08
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	349.46	21.08
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	387.86	21.08
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	413.05	21.08
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	431.04	21.08

05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	350.19	43.92
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	452.96	43.92

05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Steel Guard.

05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	190.94	21.08
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	210.62	21.08
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	235.17	21.08
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	258.13	21.08
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	284.68	21.08
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	297.48	21.08
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	328.27	21.08
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	354.26	21.08
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	381.86	21.08
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	409.85	21.08

05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners and lift-out mounting plate.

05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	279.48	21.08
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	301.08	21.08
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	323.47	21.08
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	349.46	21.08
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	375.46	21.08
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	396.65	21.08
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	421.05	21.08
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	448.64	21.08
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	478.23	21.08
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	504.23	21.08

05 58 23 00-0040 Posts For 3-Rib Guard Rails (05 58 23 00-0017)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	309.24	43.92
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails	392.58	43.92

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0043			All-Welded, Protective Guards (05 58 23) Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044			All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045	EA		36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	403.85	58.56
05 58 23 00-0046	EA		48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	423.85	58.56
05 58 23 00-0047	EA		36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	435.44	58.56
05 58 23 00-0048	EA		48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	452.64	58.56
05 58 23 00-0049	EA		36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	448.64	58.56
05 58 23 00-0050	EA		48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	469.84	58.56
05 58 23 00-0051	EA		36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	475.83	58.56
05 58 23 00-0052	EA		48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	482.63	58.56
05 58 23 00-0053	EA		48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	515.02	58.56
05 58 23 00-0054			Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055	EA		24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	527.82	58.56
05 58 23 00-0056	EA		30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	551.82	58.56
05 58 23 00-0057	EA		24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	561.81	58.56
05 58 23 00-0058	EA		30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	611.00	58.56
05 58 23 00-0059			Warehouse Safety Bollards (05 58 23) Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA		24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	255.50	43.92
05 58 23 00-0061	EA		36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	295.01	43.92
05 58 23 00-0062	EA		42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	336.84	43.92
05 58 23 00-0063	EA		36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	348.28	43.92
05 58 23 00-0064	EA		42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	374.68	43.92

05 59 Metal Specialties (05 59)**05 59 65 Metal Chain** (05 59)

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 65 00-0001			Alloy Steel Chain, Self Colored, Cut Length (05 59 65) Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002	LF		3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	4.80	0.98
			<i>For Plastic Dipped, Add</i>	0.43	
05 59 65 00-0003	LF		1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.78	1.31
			<i>For Plastic Dipped, Add</i>	0.63	
05 59 65 00-0004	LF		3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	10.84	2.61
			<i>For Plastic Dipped, Add</i>	0.84	
05 59 65 00-0005	LF		1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	17.46	4.40
			<i>For Plastic Dipped, Add</i>	1.30	
05 59 65 00-0006	LF		5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	29.46	7.44
			<i>For Plastic Dipped, Add</i>	2.19	
05 59 65 00-0007	LF		3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	41.35	10.44
			<i>For Plastic Dipped, Add</i>	3.07	
05 59 65 00-0008	LF		7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	56.11	13.06
			<i>For Plastic Dipped, Add</i>	4.50	
05 59 65 00-0009	LF		1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	80.81	17.40
			<i>For Plastic Dipped, Add</i>	6.90	
05 59 65 00-0010	LF		1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	130.94	26.11
			<i>For Plastic Dipped, Add</i>	11.81	

05 59 69 Metal Panels (05 59)

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0001			Woven And Welded Wire Cloth (05 59 69) Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0002			Plain Steel Woven And Welded Wire Cloth Panels (05 59 69 00-0001)		
05 59 69 00-0003			2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0004	SF		0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels.....	8.10	2.79
			<i>For Up To 2, Add</i>	2.36	
			<i>For >2 To 6, Add</i>	1.37	
			<i>For >15 To 40, Deduct</i>	-0.22	
			<i>For >40, Deduct</i>	-0.66	
			<i>For Galvanized, Add</i>	1.93	
			<i>For Aluminum, Add</i>	2.63	
			<i>For 304 Stainless Steel, Add</i>	10.51	
			<i>For 316 Stainless Steel, Add</i>	12.05	
05 59 69 00-0005	SF		0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels.....	8.70	2.90
			<i>For Up To 2, Add</i>	2.52	
			<i>For >2 To 6, Add</i>	1.45	
			<i>For >15 To 40, Deduct</i>	-0.24	
			<i>For >40, Deduct</i>	-0.72	
			<i>For Galvanized, Add</i>	2.12	
			<i>For Aluminum, Add</i>	2.89	
			<i>For 304 Stainless Steel, Add</i>	11.57	
			<i>For 316 Stainless Steel, Add</i>	13.26	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0006 SF 0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels	9.27	3.22
For Up To 2, Add	2.71	
For >2 To 6, Add	1.57	
For >15 To 40, Deduct	-0.25	
For >40, Deduct	-0.75	
For Galvanized, Add	2.19	
For Aluminum, Add	2.99	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	13.70	
05 59 69 00-0007 SF 0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels	9.77	3.36
For Up To 2, Add	2.85	
For >2 To 6, Add	1.65	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.80	
For Galvanized, Add	2.33	
For Aluminum, Add	3.18	
For 304 Stainless Steel, Add	12.72	
For 316 Stainless Steel, Add	14.58	
05 59 69 00-0008 SF 0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels	10.71	3.76
For Up To 2, Add	3.15	
For >2 To 6, Add	1.82	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.85	
For Galvanized, Add	2.50	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.66	
For 316 Stainless Steel, Add	15.65	
05 59 69 00-0009 SF 0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels	12.27	4.19
For Up To 2, Add	3.57	
For >2 To 6, Add	2.07	
For >15 To 40, Deduct	-0.33	
For >40, Deduct	-1.00	
For Galvanized, Add	2.94	
For Aluminum, Add	4.01	
For 304 Stainless Steel, Add	16.03	
For 316 Stainless Steel, Add	18.37	
05 59 69 00-0010 SF 0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels	13.87	4.61
For Up To 2, Add	4.00	
For >2 To 6, Add	2.31	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.16	
For Galvanized, Add	3.40	
For Aluminum, Add	4.64	
For 304 Stainless Steel, Add	18.55	
For 316 Stainless Steel, Add	21.26	
05 59 69 00-0011 SF 0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	15.85	5.12
For Up To 2, Add	4.53	
For >2 To 6, Add	2.61	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.35	
For Galvanized, Add	3.97	
For Aluminum, Add	5.42	
For 304 Stainless Steel, Add	21.67	
For 316 Stainless Steel, Add	24.83	
05 59 69 00-0012 1-3/4" Square Wire Spacing (05 59 69 00-0002)	8.51	2.95
05 59 69 00-0013 SF 0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels	8.51	2.95
For Up To 2, Add	2.49	
For >2 To 6, Add	1.44	
For >15 To 40, Deduct	-0.23	
For >40, Deduct	-0.69	
For Galvanized, Add	2.01	
For Aluminum, Add	2.74	
For 304 Stainless Steel, Add	10.97	
For 316 Stainless Steel, Add	12.57	
05 59 69 00-0014 SF 0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels	9.33	3.11
For Up To 2, Add	2.70	
For >2 To 6, Add	1.56	
For >15 To 40, Deduct	-0.26	
For >40, Deduct	-0.78	
For Galvanized, Add	2.27	
For Aluminum, Add	3.10	
For 304 Stainless Steel, Add	12.41	
For 316 Stainless Steel, Add	14.22	
05 59 69 00-0015 SF 0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels	10.06	3.49
For Up To 2, Add	2.94	
For >2 To 6, Add	1.71	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.81	
For Galvanized, Add	2.38	
For Aluminum, Add	3.24	
For 304 Stainless Steel, Add	12.96	
For 316 Stainless Steel, Add	14.85	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0016	SF		0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels	10.51	3.61
			For Up To 2, Add	3.06	
			For >2 To 6, Add	1.77	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.86	
			For Galvanized, Add	2.51	
			For Aluminum, Add	3.42	
			For 304 Stainless Steel, Add	13.68	
			For 316 Stainless Steel, Add	15.68	
05 59 69 00-0017	SF		0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	11.52	4.04
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.96	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.92	
			For Galvanized, Add	2.70	
			For Aluminum, Add	3.68	
			For 304 Stainless Steel, Add	14.71	
			For 316 Stainless Steel, Add	16.86	
05 59 69 00-0018	SF		0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels	13.21	4.52
			For Up To 2, Add	3.85	
			For >2 To 6, Add	2.22	
			For >15 To 40, Deduct	-0.36	
			For >40, Deduct	-1.08	
			For Galvanized, Add	3.16	
			For Aluminum, Add	4.31	
			For 304 Stainless Steel, Add	17.26	
			For 316 Stainless Steel, Add	19.77	
05 59 69 00-0019	SF		0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels	14.91	4.95
			For Up To 2, Add	4.30	
			For >2 To 6, Add	2.48	
			For >15 To 40, Deduct	-0.42	
			For >40, Deduct	-1.25	
			For Galvanized, Add	3.66	
			For Aluminum, Add	4.99	
			For 304 Stainless Steel, Add	19.94	
			For 316 Stainless Steel, Add	22.85	
05 59 69 00-0020	SF		0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	17.07	5.50
			For Up To 2, Add	4.88	
			For >2 To 6, Add	2.81	
			For >15 To 40, Deduct	-0.49	
			For >40, Deduct	-1.46	
			For Galvanized, Add	4.28	
			For Aluminum, Add	5.83	
			For 304 Stainless Steel, Add	23.33	
			For 316 Stainless Steel, Add	26.73	
05 59 69 00-0021			1-1/2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0022	SF		0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels	9.42	3.28
			For Up To 2, Add	2.76	
			For >2 To 6, Add	1.60	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.23	
			For Aluminum, Add	3.04	
			For 304 Stainless Steel, Add	12.14	
			For 316 Stainless Steel, Add	13.92	
05 59 69 00-0023	SF		0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels	10.32	3.45
			For Up To 2, Add	2.98	
			For >2 To 6, Add	1.72	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.86	
			For Galvanized, Add	2.52	
			For Aluminum, Add	3.43	
			For 304 Stainless Steel, Add	13.73	
			For 316 Stainless Steel, Add	15.73	
05 59 69 00-0024	SF		0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	11.01	3.82
			For Up To 2, Add	3.22	
			For >2 To 6, Add	1.87	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.89	
			For Galvanized, Add	2.60	
			For Aluminum, Add	3.55	
			For 304 Stainless Steel, Add	14.18	
			For 316 Stainless Steel, Add	16.25	
05 59 69 00-0025	SF		0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels	11.60	3.98
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.96	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.94	
			For Galvanized, Add	2.77	
			For Aluminum, Add	3.77	
			For 304 Stainless Steel, Add	15.10	
			For 316 Stainless Steel, Add	17.30	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0026 SF 0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	12.67	4.45
For Up To 2, Add	3.72	
For >2 To 6, Add	2.16	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.01	
For Galvanized, Add	2.96	
For Aluminum, Add	4.04	
For 304 Stainless Steel, Add	16.15	
For 316 Stainless Steel, Add	18.51	
05 59 69 00-0027 SF 0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels	14.43	4.93
For Up To 2, Add	4.20	
For >2 To 6, Add	2.43	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.18	
For Galvanized, Add	3.46	
For Aluminum, Add	4.72	
For 304 Stainless Steel, Add	18.86	
For 316 Stainless Steel, Add	21.62	
05 59 69 00-0028 SF 0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels	16.31	5.42
For Up To 2, Add	4.71	
For >2 To 6, Add	2.71	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.36	
For Galvanized, Add	4.00	
For Aluminum, Add	5.45	
For 304 Stainless Steel, Add	21.82	
For 316 Stainless Steel, Add	25.00	
05 59 69 00-0029 SF 0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels	18.61	6.01
For Up To 2, Add	5.32	
For >2 To 6, Add	3.06	
For >15 To 40, Deduct	-0.53	
For >40, Deduct	-1.59	
For Galvanized, Add	4.67	
For Aluminum, Add	6.37	
For 304 Stainless Steel, Add	25.46	
For 316 Stainless Steel, Add	29.18	
05 59 69 00-0030 1-1/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0031 SF 0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels	9.70	3.54
For Up To 2, Add	2.89	
For >2 To 6, Add	1.68	
For >15 To 40, Deduct	-0.25	
For >40, Deduct	-0.74	
For Galvanized, Add	2.18	
For Aluminum, Add	2.98	
For 304 Stainless Steel, Add	11.90	
For 316 Stainless Steel, Add	13.64	
05 59 69 00-0032 SF 0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels	10.45	3.72
For Up To 2, Add	3.08	
For >2 To 6, Add	1.79	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.82	
For Galvanized, Add	2.42	
For Aluminum, Add	3.29	
For 304 Stainless Steel, Add	13.18	
For 316 Stainless Steel, Add	15.10	
05 59 69 00-0033 SF 0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	11.31	3.88
For Up To 2, Add	3.30	
For >2 To 6, Add	1.91	
For >15 To 40, Deduct	-0.31	
For >40, Deduct	-0.92	
For Galvanized, Add	2.70	
For Aluminum, Add	3.68	
For 304 Stainless Steel, Add	14.74	
For 316 Stainless Steel, Add	16.89	
05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels	11.64	3.95
For Up To 2, Add	3.38	
For >2 To 6, Add	1.95	
For >15 To 40, Deduct	-0.32	
For >40, Deduct	-0.96	
For Galvanized, Add	2.81	
For Aluminum, Add	3.83	
For 304 Stainless Steel, Add	15.31	
For 316 Stainless Steel, Add	17.55	
05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	12.67	4.46
For Up To 2, Add	3.72	
For >2 To 6, Add	2.16	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.01	
For Galvanized, Add	2.96	
For Aluminum, Add	4.03	
For 304 Stainless Steel, Add	16.13	
For 316 Stainless Steel, Add	18.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0036	SF		0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels	14.27	5.02
			For Up To 2, Add	4.19	
			For >2 To 6, Add	2.43	
			For >15 To 40, Deduct	-0.38	
			For >40, Deduct	-1.14	
			For Galvanized, Add	3.34	
			For Aluminum, Add	4.55	
			For 304 Stainless Steel, Add	18.22	
			For 316 Stainless Steel, Add	20.87	
05 59 69 00-0037	SF		0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	16.20	5.53
			For Up To 2, Add	4.72	
			For >2 To 6, Add	2.73	
			For >15 To 40, Deduct	-0.44	
			For >40, Deduct	-1.32	
			For Galvanized, Add	3.88	
			For Aluminum, Add	5.29	
			For 304 Stainless Steel, Add	21.17	
			For 316 Stainless Steel, Add	24.26	
05 59 69 00-0038	SF		0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels	18.21	6.05
			For Up To 2, Add	5.25	
			For >2 To 6, Add	3.03	
			For >15 To 40, Deduct	-0.51	
			For >40, Deduct	-1.52	
			For Galvanized, Add	4.47	
			For Aluminum, Add	6.09	
			For 304 Stainless Steel, Add	24.36	
			For 316 Stainless Steel, Add	27.91	
05 59 69 00-0039	SF		0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	20.82	6.71
			For Up To 2, Add	5.95	
			For >2 To 6, Add	3.42	
			For >15 To 40, Deduct	-0.59	
			For >40, Deduct	-1.78	
			For Galvanized, Add	5.22	
			For Aluminum, Add	7.12	
			For 304 Stainless Steel, Add	28.49	
			For 316 Stainless Steel, Add	32.64	
05 59 69 00-0040			1" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0041	SF		0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels.....	11.08	4.16
			For Up To 2, Add	3.32	
			For >2 To 6, Add	1.94	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.83	
			For Galvanized, Add	2.44	
			For Aluminum, Add	3.33	
			For 304 Stainless Steel, Add	13.32	
			For 316 Stainless Steel, Add	15.26	
05 59 69 00-0042	SF		0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels.....	11.85	4.32
			For Up To 2, Add	3.52	
			For >2 To 6, Add	2.05	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.91	
			For Galvanized, Add	2.68	
			For Aluminum, Add	3.65	
			For 304 Stainless Steel, Add	14.62	
			For 316 Stainless Steel, Add	16.75	
05 59 69 00-0043	SF		0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels.....	12.35	4.52
			For Up To 2, Add	3.68	
			For >2 To 6, Add	2.14	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.95	
			For Galvanized, Add	2.78	
			For Aluminum, Add	3.79	
			For 304 Stainless Steel, Add	15.17	
			For 316 Stainless Steel, Add	17.38	
05 59 69 00-0044	SF		0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels.....	13.18	4.58
			For Up To 2, Add	3.86	
			For >2 To 6, Add	2.23	
			For >15 To 40, Deduct	-0.35	
			For >40, Deduct	-1.06	
			For Galvanized, Add	3.11	
			For Aluminum, Add	4.24	
			For 304 Stainless Steel, Add	16.97	
			For 316 Stainless Steel, Add	19.44	
05 59 69 00-0045	SF		0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels.....	14.67	5.16
			For Up To 2, Add	4.31	
			For >2 To 6, Add	2.50	
			For >15 To 40, Deduct	-0.39	
			For >40, Deduct	-1.17	
			For Galvanized, Add	3.43	
			For Aluminum, Add	4.67	
			For 304 Stainless Steel, Add	18.70	
			For 316 Stainless Steel, Add	21.42	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0046 SF 0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels	16.47	5.78
For Up To 2, Add	4.84	
For >2 To 6, Add	2.80	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.31	
For Galvanized, Add	3.85	
For Aluminum, Add	5.26	
For 304 Stainless Steel, Add	21.02	
For 316 Stainless Steel, Add	24.09	
05 59 69 00-0047 SF 0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels	18.79	6.41
For Up To 2, Add	5.47	
For >2 To 6, Add	3.16	
For >15 To 40, Deduct	-0.51	
For >40, Deduct	-1.53	
For Galvanized, Add	4.50	
For Aluminum, Add	6.14	
For 304 Stainless Steel, Add	24.55	
For 316 Stainless Steel, Add	28.13	
05 59 69 00-0048 SF 0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels	21.10	7.00
For Up To 2, Add	6.09	
For >2 To 6, Add	3.51	
For >15 To 40, Deduct	-0.59	
For >40, Deduct	-1.76	
For Galvanized, Add	5.17	
For Aluminum, Add	7.06	
For 304 Stainless Steel, Add	28.22	
For 316 Stainless Steel, Add	32.34	
05 59 69 00-0049 SF 0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels	24.02	7.75
For Up To 2, Add	6.87	
For >2 To 6, Add	3.95	
For >15 To 40, Deduct	-0.68	
For >40, Deduct	-2.05	
For Galvanized, Add	6.02	
For Aluminum, Add	8.21	
For 304 Stainless Steel, Add	32.86	
For 316 Stainless Steel, Add	37.65	
05 59 69 00-0050 3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0051 SF 0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	11.20	4.14
For Up To 2, Add	3.34	
For >2 To 6, Add	1.95	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.85	
For Galvanized, Add	2.50	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.63	
For 316 Stainless Steel, Add	15.62	
05 59 69 00-0052 SF 0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels	12.52	4.65
For Up To 2, Add	3.74	
For >2 To 6, Add	2.18	
For >15 To 40, Deduct	-0.32	
For >40, Deduct	-0.95	
For Galvanized, Add	2.78	
For Aluminum, Add	3.79	
For 304 Stainless Steel, Add	15.17	
For 316 Stainless Steel, Add	17.38	
05 59 69 00-0053 SF 0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels	13.87	5.25
For Up To 2, Add	4.17	
For >2 To 6, Add	2.44	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.03	
For Galvanized, Add	3.03	
For Aluminum, Add	4.13	
For 304 Stainless Steel, Add	16.51	
For 316 Stainless Steel, Add	18.92	
05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels	14.99	5.60
For Up To 2, Add	4.49	
For >2 To 6, Add	2.62	
For >15 To 40, Deduct	-0.38	
For >40, Deduct	-1.13	
For Galvanized, Add	3.31	
For Aluminum, Add	4.51	
For 304 Stainless Steel, Add	18.05	
For 316 Stainless Steel, Add	20.68	
05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels	17.30	6.30
For Up To 2, Add	5.14	
For >2 To 6, Add	2.99	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.34	
For Galvanized, Add	3.92	
For Aluminum, Add	5.34	
For 304 Stainless Steel, Add	21.36	
For 316 Stainless Steel, Add	24.48	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0056	SF		0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels.....	19.87	7.05
			For Up To 2, Add	5.85	
			For >2 To 6, Add	3.40	
			For >15 To 40, Deduct	-0.52	
			For >40, Deduct	-1.57	
			For Galvanized, Add	4.61	
			For Aluminum, Add	6.29	
			For 304 Stainless Steel, Add	25.15	
			For 316 Stainless Steel, Add	28.82	
05 59 69 00-0057	SF		0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels.....	22.57	7.78
			For Up To 2, Add	6.59	
			For >2 To 6, Add	3.81	
			For >15 To 40, Deduct	-0.61	
			For >40, Deduct	-1.83	
			For Galvanized, Add	5.36	
			For Aluminum, Add	7.31	
			For 304 Stainless Steel, Add	29.26	
			For 316 Stainless Steel, Add	33.52	
05 59 69 00-0058	SF		0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels.....	25.23	8.47
			For Up To 2, Add	7.30	
			For >2 To 6, Add	4.22	
			For >15 To 40, Deduct	-0.70	
			For >40, Deduct	-2.09	
			For Galvanized, Add	6.14	
			For Aluminum, Add	8.37	
			For 304 Stainless Steel, Add	33.48	
			For 316 Stainless Steel, Add	38.36	
05 59 69 00-0059	SF		0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels.....	28.72	9.36
			For Up To 2, Add	8.24	
			For >2 To 6, Add	4.74	
			For >15 To 40, Deduct	-0.81	
			For >40, Deduct	-2.44	
			For Galvanized, Add	7.15	
			For Aluminum, Add	9.74	
			For 304 Stainless Steel, Add	38.98	
			For 316 Stainless Steel, Add	44.66	
05 59 69 00-0060			1/2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0061	SF		0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels.....	11.73	4.44
			For Up To 2, Add	3.53	
			For >2 To 6, Add	2.06	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.87	
			For Galvanized, Add	2.56	
			For Aluminum, Add	3.49	
			For 304 Stainless Steel, Add	13.94	
			For 316 Stainless Steel, Add	15.98	
05 59 69 00-0062	SF		0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels.....	13.77	5.39
			For Up To 2, Add	4.19	
			For >2 To 6, Add	2.46	
			For >15 To 40, Deduct	-0.33	
			For >40, Deduct	-0.99	
			For Galvanized, Add	2.89	
			For Aluminum, Add	3.94	
			For 304 Stainless Steel, Add	15.77	
			For 316 Stainless Steel, Add	18.07	
05 59 69 00-0063	SF		0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels.....	16.61	6.38
			For Up To 2, Add	5.02	
			For >2 To 6, Add	2.94	
			For >15 To 40, Deduct	-0.41	
			For >40, Deduct	-1.22	
			For Galvanized, Add	3.56	
			For Aluminum, Add	4.86	
			For 304 Stainless Steel, Add	19.44	
			For 316 Stainless Steel, Add	22.28	
05 59 69 00-0064	SF		0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels.....	19.11	7.16
			For Up To 2, Add	5.73	
			For >2 To 6, Add	3.34	
			For >15 To 40, Deduct	-0.48	
			For >40, Deduct	-1.44	
			For Galvanized, Add	4.21	
			For Aluminum, Add	5.74	
			For 304 Stainless Steel, Add	22.97	
			For 316 Stainless Steel, Add	26.32	
05 59 69 00-0065	SF		0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels.....	21.90	7.99
			For Up To 2, Add	6.51	
			For >2 To 6, Add	3.79	
			For >15 To 40, Deduct	-0.56	
			For >40, Deduct	-1.69	
			For Galvanized, Add	4.95	
			For Aluminum, Add	6.75	
			For 304 Stainless Steel, Add	27.00	
			For 316 Stainless Steel, Add	30.94	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0066 SF 0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels	25.06	8.90
For Up To 2, Add	7.39	
For >2 To 6, Add	4.29	
For >15 To 40, Deduct	-0.66	
For >40, Deduct	-1.98	
For Galvanized, Add	5.80	
For Aluminum, Add	7.91	
For 304 Stainless Steel, Add	31.66	
For 316 Stainless Steel, Add	36.27	
05 59 69 00-0067 SF 0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels	28.31	9.79
For Up To 2, Add	8.27	
For >2 To 6, Add	4.79	
For >15 To 40, Deduct	-0.76	
For >40, Deduct	-2.29	
For Galvanized, Add	6.71	
For Aluminum, Add	9.16	
For 304 Stainless Steel, Add	36.62	
For 316 Stainless Steel, Add	41.97	
05 59 69 00-0068 SF 0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels	31.55	10.61
For Up To 2, Add	9.14	
For >2 To 6, Add	5.28	
For >15 To 40, Deduct	-0.87	
For >40, Deduct	-2.61	
For Galvanized, Add	7.66	
For Aluminum, Add	10.45	
For 304 Stainless Steel, Add	41.78	
For 316 Stainless Steel, Add	47.88	
05 59 69 00-0069 SF 0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels	32.97	11.68
For Up To 2, Add	9.71	
For >2 To 6, Add	5.63	
For >15 To 40, Deduct	-0.87	
For >40, Deduct	-2.61	
For Galvanized, Add	7.66	
For Aluminum, Add	10.45	
For 304 Stainless Steel, Add	41.78	
For 316 Stainless Steel, Add	47.88	
05 59 69 00-0070 Expanded Metal Panels <small>(05 59 69)</small>		
Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0071 Plain Flattened Expanded Metal Diamond Shape Panels <small>(05 59 69 00-0070)</small>		
Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0072 SF 1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF	11.05	3.82
For Galvanized, Add	2.62	
For Aluminum, Add	3.57	
For 304 Stainless Steel, Add	14.28	
For 316 Stainless Steel, Add	16.36	
05 59 69 00-0073 SF 1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF	14.01	4.19
For Galvanized, Add	3.70	
For Aluminum, Add	5.05	
For 304 Stainless Steel, Add	20.21	
For 316 Stainless Steel, Add	23.16	
05 59 69 00-0074 SF 1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF	7.93	2.95
For Galvanized, Add	1.76	
For Aluminum, Add	2.39	
For 304 Stainless Steel, Add	9.58	
For 316 Stainless Steel, Add	10.97	
05 59 69 00-0075 SF 1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF	8.66	3.22
For Galvanized, Add	1.92	
For Aluminum, Add	2.62	
For 304 Stainless Steel, Add	10.49	
For 316 Stainless Steel, Add	12.02	
05 59 69 00-0076 SF 1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF	9.77	3.82
For Galvanized, Add	2.05	
For Aluminum, Add	2.80	
For 304 Stainless Steel, Add	11.21	
For 316 Stainless Steel, Add	12.84	
05 59 69 00-0077 SF 1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF	12.51	4.93
For Galvanized, Add	2.61	
For Aluminum, Add	3.56	
For 304 Stainless Steel, Add	14.26	
For 316 Stainless Steel, Add	16.34	
05 59 69 00-0078 SF 3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF	6.86	2.90
For Galvanized, Add	1.31	
For Aluminum, Add	1.79	
For 304 Stainless Steel, Add	7.15	
For 316 Stainless Steel, Add	8.20	
05 59 69 00-0079 SF 3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF	7.71	3.11
For Galvanized, Add	1.56	
For Aluminum, Add	2.13	
For 304 Stainless Steel, Add	8.52	
For 316 Stainless Steel, Add	9.76	

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0080	SF		3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF	8.81	3.49
			<i>For Galvanized, Add</i>	1.83	
			<i>For Aluminum, Add</i>	2.49	
			<i>For 304 Stainless Steel, Add</i>	9.96	
			<i>For 316 Stainless Steel, Add</i>	11.41	
05 59 69 00-0081	SF		3/4" #9-F Plain Expanded Metal Panel, 1.50 LB/SF	13.85	5.78
			<i>For Galvanized, Add</i>	2.70	
			<i>For Aluminum, Add</i>	3.68	
			<i>For 304 Stainless Steel, Add</i>	14.74	
			<i>For 316 Stainless Steel, Add</i>	16.89	
05 59 69 00-0082	SF		1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF	7.63	3.54
			<i>For Galvanized, Add</i>	1.27	
			<i>For Aluminum, Add</i>	1.73	
			<i>For 304 Stainless Steel, Add</i>	6.94	
			<i>For 316 Stainless Steel, Add</i>	7.95	
05 59 69 00-0083	SF		1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF	6.63	2.79
			<i>For Galvanized, Add</i>	1.28	
			<i>For Aluminum, Add</i>	1.75	
			<i>For 304 Stainless Steel, Add</i>	6.98	
			<i>For 316 Stainless Steel, Add</i>	8.00	
05 59 69 00-0084	SF		1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF	7.63	3.28
			<i>For Galvanized, Add</i>	1.44	
			<i>For Aluminum, Add</i>	1.96	
			<i>For 304 Stainless Steel, Add</i>	7.85	
			<i>For 316 Stainless Steel, Add</i>	8.99	
05 59 69 00-0085	SF		1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF	11.95	4.44
			<i>For Galvanized, Add</i>	2.65	
			<i>For Aluminum, Add</i>	3.62	
			<i>For 304 Stainless Steel, Add</i>	14.47	
			<i>For 316 Stainless Steel, Add</i>	16.58	

END OF SECTION 05



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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06 Wood, Plastics, and Composites

06 01 Maintenance of Wood, Plastics, and Composites ⁽⁰⁶⁾

06 01 20 Maintenance of Finish Carpentry ^(06 01)

06 01 20 91 Finish Carpentry Restoration ^(06 01 20)

06 01 20 91-0001 Wood Trim Repair ^(06 01 20 91)

06 01 20 91-0002	SF Restoration Of Existing Decorative Woodwork.....	8.82	
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Note: Includes stripping to bare wood, filling or patching, stain or paint to match existing.

06 05 Common Work Results for Wood, Plastics, and Composites ⁽⁰⁶⁾

06 05 23 Wood, Plastic, and Composite Fastenings ^(06 05)

Note: For additional fasteners above normal conditions, for replacing existing fasteners, for relocating existing materials or fixtures, or for different fasteners required due to load limits on standard fasteners.

06 05 23 00-0001 Threaded Anchor Bolts ^(06 05 23)

Note: Threaded on two ends with two nuts and flat washers.

06 05 23 00-0002	EA 1/2" Diameter x 4" Long, Threaded Anchor Bolt.....	13.65	
	For >10 To 50, Deduct	-0.42	
	For >50 To 100, Deduct	-0.97	
	For >100 To 250, Deduct	-1.94	
	For >250 To 500, Deduct	-3.32	
	For >500, Deduct	-4.71	
06 05 23 00-0003	EA 1/2" Diameter x 7-1/2" Long, Threaded Anchor Bolt.....	18.18	
	For >10 To 50, Deduct	-0.45	
	For >50 To 100, Deduct	-1.13	
	For >100 To 250, Deduct	-2.26	
	For >250 To 500, Deduct	-3.84	
	For >500, Deduct	-5.42	
06 05 23 00-0004	EA 3/4" Diameter x 7-1/2" Long, Threaded Anchor Bolt.....	20.04	
	For >10 To 50, Deduct	-0.45	
	For >50 To 100, Deduct	-1.18	
	For >100 To 250, Deduct	-2.35	
	For >250 To 500, Deduct	-3.98	
	For >500, Deduct	-5.61	
06 05 23 00-0005	EA 3/4" Diameter x 12" Long, Threaded Anchor Bolt.....	39.58	
	For >10 To 50, Deduct	-0.62	
	For >50 To 100, Deduct	-1.91	
	For >100 To 250, Deduct	-3.83	
	For >250 To 500, Deduct	-6.36	
	For >500, Deduct	-8.89	

06 05 23 00-0006 Framing Anchors ^(06 05 23)

Note: Including nails.

06 05 23 00-0007	EA 1-7/16" x 2-1/2" Galvanized Framing Angle Anchor (Simpson A34).....	7.47	3.51
	For >10 To 50, Deduct	-0.33	
	For >50 To 100, Deduct	-0.69	
	For >100 To 250, Deduct	-1.38	
	For >250 To 500, Deduct	-2.40	
	For >500, Deduct	-3.42	

06 05 23 00-0008 Hold Down Anchors ^(06 05 23)

Note: Including nails.

06 05 23 00-0009	EA 8-5/8" High x 2-1/2" Wide x 2-1/4" Deep, 12 Gauge, Hold Downs (Simpson Strong Tie® HD3B).....	50.24	
	For >10 To 50, Deduct	-1.81	
	For >50 To 100, Deduct	-3.98	
	For >100 To 250, Deduct	-7.96	
	For >250 To 500, Deduct	-13.75	
	For >500, Deduct	-19.54	
06 05 23 00-0010	EA 9-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Hold Downs (Simpson Strong Tie® HD5B).....	70.94	
	For >10 To 50, Deduct	-1.81	
	For >50 To 100, Deduct	-4.50	
	For >100 To 250, Deduct	-8.99	
	For >250 To 500, Deduct	-15.30	
	For >500, Deduct	-21.61	
06 05 23 00-0011	EA 12-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Hold Downs (Simpson Strong Tie® HD7B).....	80.54	
	For >10 To 50, Deduct	-1.99	
	For >50 To 100, Deduct	-5.00	
	For >100 To 250, Deduct	-10.00	
	For >250 To 500, Deduct	-16.99	
	For >500, Deduct	-23.98	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0012	EA		14" High x 2-1/2" Wide x 2-1/2" Deep, 7 Gauge, Hold Downs (Simpson Strong Tie® HD9B)	98.65	
			<i>For >10 To 50, Deduct</i>	-2.22	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100 To 250, Deduct</i>	-11.60	
			<i>For >250 To 500, Deduct</i>	-19.63	
			<i>For >500, Deduct</i>	-27.66	
06 05 23 00-0013	EA		20-5/16" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Hold Downs (Simpson Strong Tie® HD12).....	197.07	
			<i>For >10 To 50, Deduct</i>	-2.81	
			<i>For >50 To 100, Deduct</i>	-9.14	
			<i>For >100 To 250, Deduct</i>	-18.28	
			<i>For >250 To 500, Deduct</i>	-30.24	
			<i>For >500, Deduct</i>	-42.19	
06 05 23 00-0014	EA		24-1/2" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Hold Downs (Simpson Strong Tie® HD19).....	227.07	
			<i>For >10 To 50, Deduct</i>	-2.93	
			<i>For >50 To 100, Deduct</i>	-10.07	
			<i>For >100 To 250, Deduct</i>	-20.13	
			<i>For >250 To 500, Deduct</i>	-33.13	
			<i>For >500, Deduct</i>	-46.12	
06 05 23 00-0015			Joist And Beam Hangers <small>(06 05 23)</small>		
			Note: Including nails.		
06 05 23 00-0016	EA		18 Gauge Joist Hanger, For 2" x 4" Joist, Also Acceptable For Beam Hangers	7.50	3.28
			<i>For >10 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.69	
			<i>For >100 To 250, Deduct</i>	-1.38	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-3.43	
06 05 23 00-0017	EA		18 Gauge Joist Hanger, For 2" x 6"-2" x 10" Joist, Also Acceptable For Beam Hangers.....	8.56	3.28
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.75	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-2.59	
			<i>For >500, Deduct</i>	-3.69	
06 05 23 00-0018	EA		16 Gauge Joist Hanger, For 3" x 6"-3" x 9" Joist, Also Acceptable For Beam Hangers.....	10.90	3.28
			<i>For >10 To 50, Deduct</i>	-0.37	
			<i>For >50 To 100, Deduct</i>	-0.82	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.83	
			<i>For >500, Deduct</i>	-4.02	
06 05 23 00-0019	EA		16 Gauge Joist Hanger, For 3" x 10"-3" x 14" Joist, Also Acceptable For Beam Hangers.....	11.13	3.28
			<i>For >10 To 50, Deduct</i>	-0.37	
			<i>For >50 To 100, Deduct</i>	-0.83	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-4.04	
06 05 23 00-0020	EA		14 Gauge Joist Hanger, For 4" x 6"-4" x 8" Joist, Also Acceptable For Beam Hangers.....	11.23	3.39
			<i>For >10 To 50, Deduct</i>	-0.38	
			<i>For >50 To 100, Deduct</i>	-0.85	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-4.15	
06 05 23 00-0021	EA		14 Gauge Joist Hanger, For 4" x 10"-4" x 14" Joist, Also Acceptable For Beam Hangers.....	11.84	3.39
			<i>For >10 To 50, Deduct</i>	-0.38	
			<i>For >50 To 100, Deduct</i>	-0.86	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-4.21	
06 05 23 00-0022			Anchor And Ties <small>(06 05 23)</small>		
			Note: Including nails.		
06 05 23 00-0023	EA		Pre-Deflected Hold Down With SDS Screws (Simpson Strong Tie® PHD5-SDS).....	49.53	
06 05 23 00-0024	EA		12-3/8" Heavy Tension Tie (Simpson Strong Tie® HTT4)	31.97	
06 05 23 00-0025	EA		16" Heavy Tension Tie (Simpson Strong Tie® HTT5)	46.58	
06 05 23 00-0026	EA		2" x 4" Or 2" x 6" Mudsill Anchor 16 Gauge Zinc Galvanized Finish (Simpson Strong Tie® MAS).....	4.38	
06 05 23 00-0027			Hurricane Clips <small>(06 05 23)</small>		
06 05 23 00-0028	EA		18 Gauge Zinc Galvanized Finish Hurricane Clips (Simpson Strong Tie® H2.5A)	3.22	
06 05 23 00-0029	EA		18 Gauge Stainless Steel Hurricane Clips (Simpson Strong Tie® H2.5SS)	7.98	
06 05 23 00-0030	EA		Hurricane Strap (Simpson Strong Tie® H6).....	12.76	
06 05 23 00-0031			Post Framing <small>(06 05 23)</small>		
			Note: Including nails.		
06 05 23 00-0032	EA		16 Gauge Post Framing With 4" x 4" Base	14.86	4.10
			<i>For >10 To 50, Deduct</i>	-0.45	
			<i>For >50 To 100, Deduct</i>	-1.05	
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-3.59	
			<i>For >500, Deduct</i>	-5.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0033 EA 16 Gauge Post Framing With 4" x 4" Cap.....	12.55	4.10
<i>For >10 To 50, Deduct</i>	-0.45	
<i>For >50 To 100, Deduct</i>	-0.99	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-3.42	
<i>For >500, Deduct</i>	-4.86	
06 05 23 00-0034 Rafter Anchors <small>(06 05 23)</small>		
06 05 23 00-0035 EA 1-1/2" Wide x 5-1/4" Long, 18 Gauge Rafter Anchor	8.49	3.63
<i>For >10 To 50, Deduct</i>	-0.40	
<i>For >50 To 100, Deduct</i>	-0.82	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-4.08	
06 05 23 00-0036 EA 1-1/2" Wide x 10-3/4" Long, 18 Gauge Rafter Anchor	8.74	3.63
<i>For >10 To 50, Deduct</i>	-0.40	
<i>For >50 To 100, Deduct</i>	-0.82	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-4.10	
06 05 23 00-0037 EA Galvanized Rigid Rafter Connector, For 2" x 6".....	10.81	3.63
<i>For >10 To 50, Deduct</i>	-0.40	
<i>For >50 To 100, Deduct</i>	-0.88	
<i>For >100 To 250, Deduct</i>	-1.75	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-4.31	
06 05 23 00-0038 Bolts And Fasteners <small>(06 05 23)</small>		
06 05 23 00-0039 Carriage Bolts <small>(06 05 23 00-0038)</small>		
Note: Includes drilling of holes in any material. Includes nut and washer.		
06 05 23 00-0040 Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0039)</small>		
06 05 23 00-0041 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	15.61	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100 To 250, Deduct</i>	-3.06	
<i>For >250 To 500, Deduct</i>	-5.36	
<i>For >500, Deduct</i>	-7.65	
06 05 23 00-0042 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	15.78	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100 To 250, Deduct</i>	-3.07	
<i>For >250 To 500, Deduct</i>	-5.37	
<i>For >500, Deduct</i>	-7.67	
06 05 23 00-0043 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	15.88	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100 To 250, Deduct</i>	-3.08	
<i>For >250 To 500, Deduct</i>	-5.38	
<i>For >500, Deduct</i>	-7.68	
06 05 23 00-0044 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	18.53	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100 To 250, Deduct</i>	-3.56	
<i>For >250 To 500, Deduct</i>	-6.22	
<i>For >500, Deduct</i>	-8.88	
06 05 23 00-0045 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	17.23	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100 To 250, Deduct</i>	-3.32	
<i>For >250 To 500, Deduct</i>	-5.80	
<i>For >500, Deduct</i>	-8.28	
06 05 23 00-0046 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	18.68	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100 To 250, Deduct</i>	-3.57	
<i>For >250 To 500, Deduct</i>	-6.23	
<i>For >500, Deduct</i>	-8.89	
06 05 23 00-0047 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	18.95	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100 To 250, Deduct</i>	-3.58	
<i>For >250 To 500, Deduct</i>	-6.25	
<i>For >500, Deduct</i>	-8.92	
06 05 23 00-0048 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	22.66	
<i>For >10 To 50, Deduct</i>	-1.05	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100 To 250, Deduct</i>	-4.29	
<i>For >250 To 500, Deduct</i>	-7.49	
<i>For >500, Deduct</i>	-10.69	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0049	EA		3/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	24.65	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-2.29	
			<i>For >100 To 250, Deduct</i>	-4.57	
			<i>For >250 To 500, Deduct</i>	-7.97	
			<i>For >500, Deduct</i>	-11.37	
06 05 23 00-0050	EA		3/8" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	27.80	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100 To 250, Deduct</i>	-5.08	
			<i>For >250 To 500, Deduct</i>	-8.84	
			<i>For >500, Deduct</i>	-12.61	
06 05 23 00-0051	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	19.26	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100 To 250, Deduct</i>	-3.60	
			<i>For >250 To 500, Deduct</i>	-6.27	
			<i>For >500, Deduct</i>	-8.95	
06 05 23 00-0052	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	21.14	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-1.93	
			<i>For >100 To 250, Deduct</i>	-3.87	
			<i>For >250 To 500, Deduct</i>	-6.74	
			<i>For >500, Deduct</i>	-9.61	
06 05 23 00-0053	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	22.53	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.06	
			<i>For >100 To 250, Deduct</i>	-4.11	
			<i>For >250 To 500, Deduct</i>	-7.16	
			<i>For >500, Deduct</i>	-10.21	
06 05 23 00-0054	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	25.27	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-2.30	
			<i>For >100 To 250, Deduct</i>	-4.60	
			<i>For >250 To 500, Deduct</i>	-8.01	
			<i>For >500, Deduct</i>	-11.43	
06 05 23 00-0055	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	29.72	
			<i>For >10 To 50, Deduct</i>	-1.29	
			<i>For >50 To 100, Deduct</i>	-2.68	
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-9.31	
			<i>For >500, Deduct</i>	-13.28	
06 05 23 00-0056	EA		1/2" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	33.34	
			<i>For >10 To 50, Deduct</i>	-1.41	
			<i>For >50 To 100, Deduct</i>	-2.94	
			<i>For >100 To 250, Deduct</i>	-5.88	
			<i>For >250 To 500, Deduct</i>	-10.23	
			<i>For >500, Deduct</i>	-14.57	
06 05 23 00-0057	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	26.47	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100 To 250, Deduct</i>	-4.48	
			<i>For >250 To 500, Deduct</i>	-7.78	
			<i>For >500, Deduct</i>	-11.08	
06 05 23 00-0058	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	28.74	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-4.77	
			<i>For >250 To 500, Deduct</i>	-8.27	
			<i>For >500, Deduct</i>	-11.77	
06 05 23 00-0059	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	34.49	
			<i>For >10 To 50, Deduct</i>	-1.29	
			<i>For >50 To 100, Deduct</i>	-2.79	
			<i>For >100 To 250, Deduct</i>	-5.59	
			<i>For >250 To 500, Deduct</i>	-9.67	
			<i>For >500, Deduct</i>	-13.75	
06 05 23 00-0060	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	38.89	
			<i>For >10 To 50, Deduct</i>	-1.35	
			<i>For >50 To 100, Deduct</i>	-2.99	
			<i>For >100 To 250, Deduct</i>	-5.98	
			<i>For >250 To 500, Deduct</i>	-10.32	
			<i>For >500, Deduct</i>	-14.66	
06 05 23 00-0061	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	42.23	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-3.25	
			<i>For >100 To 250, Deduct</i>	-6.50	
			<i>For >250 To 500, Deduct</i>	-11.22	
			<i>For >500, Deduct</i>	-15.93	
06 05 23 00-0062	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	43.02	
			<i>For >10 To 50, Deduct</i>	-1.52	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100 To 250, Deduct</i>	-6.72	
			<i>For >250 To 500, Deduct</i>	-11.60	
			<i>For >500, Deduct</i>	-16.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0063 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0039)</small>					
06 05 23 00-0064	EA	1/4"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	15.91	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.54	
			<i>For >100 To 250, Deduct</i>	-3.08	
			<i>For >250 To 500, Deduct</i>	-5.38	
			<i>For >500, Deduct</i>	-7.68	
06 05 23 00-0065	EA	1/4"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	16.23	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100 To 250, Deduct</i>	-3.09	
			<i>For >250 To 500, Deduct</i>	-5.40	
			<i>For >500, Deduct</i>	-7.71	
06 05 23 00-0066	EA	1/4"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	16.58	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.56	
			<i>For >100 To 250, Deduct</i>	-3.11	
			<i>For >250 To 500, Deduct</i>	-5.43	
			<i>For >500, Deduct</i>	-7.75	
06 05 23 00-0067	EA	1/4"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.71	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100 To 250, Deduct</i>	-3.62	
			<i>For >250 To 500, Deduct</i>	-6.31	
			<i>For >500, Deduct</i>	-9.00	
06 05 23 00-0068	EA	3/8"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	17.66	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100 To 250, Deduct</i>	-3.34	
			<i>For >250 To 500, Deduct</i>	-5.83	
			<i>For >500, Deduct</i>	-8.32	
06 05 23 00-0069	EA	3/8"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.34	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100 To 250, Deduct</i>	-3.60	
			<i>For >250 To 500, Deduct</i>	-6.28	
			<i>For >500, Deduct</i>	-8.96	
06 05 23 00-0070	EA	3/8"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.73	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100 To 250, Deduct</i>	-3.62	
			<i>For >250 To 500, Deduct</i>	-6.31	
			<i>For >500, Deduct</i>	-9.00	
06 05 23 00-0071	EA	3/8"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.84	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100 To 250, Deduct</i>	-4.35	
			<i>For >250 To 500, Deduct</i>	-7.58	
			<i>For >500, Deduct</i>	-10.81	
06 05 23 00-0072	EA	3/8"	Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	25.98	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-2.32	
			<i>For >100 To 250, Deduct</i>	-4.64	
			<i>For >250 To 500, Deduct</i>	-8.07	
			<i>For >500, Deduct</i>	-11.50	
06 05 23 00-0073	EA	3/8"	Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	29.03	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.57	
			<i>For >100 To 250, Deduct</i>	-5.14	
			<i>For >250 To 500, Deduct</i>	-8.94	
			<i>For >500, Deduct</i>	-12.74	
06 05 23 00-0074	EA	1/2"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	20.25	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-1.82	
			<i>For >100 To 250, Deduct</i>	-3.65	
			<i>For >250 To 500, Deduct</i>	-6.35	
			<i>For >500, Deduct</i>	-9.05	
06 05 23 00-0075	EA	1/2"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.92	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-1.95	
			<i>For >100 To 250, Deduct</i>	-3.91	
			<i>For >250 To 500, Deduct</i>	-6.80	
			<i>For >500, Deduct</i>	-9.69	
06 05 23 00-0076	EA	1/2"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.46	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.08	
			<i>For >100 To 250, Deduct</i>	-4.16	
			<i>For >250 To 500, Deduct</i>	-7.23	
			<i>For >500, Deduct</i>	-10.31	
06 05 23 00-0077	EA	1/2"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	26.61	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-2.33	
			<i>For >100 To 250, Deduct</i>	-4.67	
			<i>For >250 To 500, Deduct</i>	-8.11	
			<i>For >500, Deduct</i>	-11.56	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0078 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	31.04	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-2.71	
For >100 To 250, Deduct	-5.42	
For >250 To 500, Deduct	-9.41	
For >500, Deduct	-13.41	
06 05 23 00-0079 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	34.35	
For >10 To 50, Deduct	-1.41	
For >50 To 100, Deduct	-2.97	
For >100 To 250, Deduct	-5.93	
For >250 To 500, Deduct	-10.30	
For >500, Deduct	-14.68	
06 05 23 00-0080 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	29.46	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.32	
For >100 To 250, Deduct	-4.63	
For >250 To 500, Deduct	-8.00	
For >500, Deduct	-11.37	
06 05 23 00-0081 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	30.83	
For >10 To 50, Deduct	-1.11	
For >50 To 100, Deduct	-2.44	
For >100 To 250, Deduct	-4.88	
For >250 To 500, Deduct	-8.43	
For >500, Deduct	-11.98	
06 05 23 00-0082 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	35.98	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-2.83	
For >100 To 250, Deduct	-5.66	
For >250 To 500, Deduct	-9.78	
For >500, Deduct	-13.90	
06 05 23 00-0083 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	38.77	
For >10 To 50, Deduct	-1.35	
For >50 To 100, Deduct	-2.99	
For >100 To 250, Deduct	-5.98	
For >250 To 500, Deduct	-10.31	
For >500, Deduct	-14.65	
06 05 23 00-0084 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	44.15	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.30	
For >100 To 250, Deduct	-6.60	
For >250 To 500, Deduct	-11.36	
For >500, Deduct	-16.12	
06 05 23 00-0085 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	47.04	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.46	
For >100 To 250, Deduct	-6.92	
For >250 To 500, Deduct	-11.90	
For >500, Deduct	-16.88	
06 05 23 00-0086 304/18-8 Stainless Steel, Carriage Bolts (06 05 23 00-0039)		
06 05 23 00-0087 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	16.59	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.56	
For >100 To 250, Deduct	-3.11	
For >250 To 500, Deduct	-5.43	
For >500, Deduct	-7.75	
06 05 23 00-0088 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	18.09	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.59	
For >100 To 250, Deduct	-3.19	
For >250 To 500, Deduct	-5.54	
For >500, Deduct	-7.90	
06 05 23 00-0089 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	19.08	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.62	
For >100 To 250, Deduct	-3.24	
For >250 To 500, Deduct	-5.62	
For >500, Deduct	-8.00	
06 05 23 00-0090 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	32.00	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.12	
For >100 To 250, Deduct	-4.23	
For >250 To 500, Deduct	-7.23	
For >500, Deduct	-10.22	
06 05 23 00-0091 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	19.15	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.71	
For >100 To 250, Deduct	-3.42	
For >250 To 500, Deduct	-5.94	
For >500, Deduct	-8.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0092 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	22.50	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100 To 250, Deduct</i>	-3.76	
<i>For >250 To 500, Deduct</i>	-6.52	
<i>For >500, Deduct</i>	-9.27	
06 05 23 00-0093 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	22.97	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.89	
<i>For >100 To 250, Deduct</i>	-3.78	
<i>For >250 To 500, Deduct</i>	-6.55	
<i>For >500, Deduct</i>	-9.32	
06 05 23 00-0094 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	42.15	
<i>For >10 To 50, Deduct</i>	-1.05	
<i>For >50 To 100, Deduct</i>	-2.63	
<i>For >100 To 250, Deduct</i>	-5.27	
<i>For >250 To 500, Deduct</i>	-8.96	
<i>For >500, Deduct</i>	-12.64	
06 05 23 00-0095 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	51.15	
<i>For >10 To 50, Deduct</i>	-1.11	
<i>For >50 To 100, Deduct</i>	-2.95	
<i>For >100 To 250, Deduct</i>	-5.90	
<i>For >250 To 500, Deduct</i>	-9.96	
<i>For >500, Deduct</i>	-14.02	
06 05 23 00-0096 EA 3/8" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	57.28	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-3.28	
<i>For >100 To 250, Deduct</i>	-6.55	
<i>For >250 To 500, Deduct</i>	-11.06	
<i>For >500, Deduct</i>	-15.56	
06 05 23 00-0097 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	24.26	
<i>For >10 To 50, Deduct</i>	-0.88	
<i>For >50 To 100, Deduct</i>	-1.92	
<i>For >100 To 250, Deduct</i>	-3.85	
<i>For >250 To 500, Deduct</i>	-6.65	
<i>For >500, Deduct</i>	-9.45	
06 05 23 00-0098 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	27.53	
<i>For >10 To 50, Deduct</i>	-0.94	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100 To 250, Deduct</i>	-4.19	
<i>For >250 To 500, Deduct</i>	-7.22	
<i>For >500, Deduct</i>	-10.25	
06 05 23 00-0099 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	33.25	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.32	
<i>For >100 To 250, Deduct</i>	-4.65	
<i>For >250 To 500, Deduct</i>	-7.97	
<i>For >500, Deduct</i>	-11.29	
06 05 23 00-0100 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	52.53	
<i>For >10 To 50, Deduct</i>	-1.11	
<i>For >50 To 100, Deduct</i>	-2.98	
<i>For >100 To 250, Deduct</i>	-5.96	
<i>For >250 To 500, Deduct</i>	-10.06	
<i>For >500, Deduct</i>	-14.15	
06 05 23 00-0101 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	59.36	
<i>For >10 To 50, Deduct</i>	-1.29	
<i>For >50 To 100, Deduct</i>	-3.42	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-11.54	
<i>For >500, Deduct</i>	-16.24	
06 05 23 00-0102 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	92.74	
<i>For >10 To 50, Deduct</i>	-1.41	
<i>For >50 To 100, Deduct</i>	-4.43	
<i>For >100 To 250, Deduct</i>	-8.85	
<i>For >250 To 500, Deduct</i>	-14.68	
<i>For >500, Deduct</i>	-20.51	
06 05 23 00-0103 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	72.04	
<i>For >10 To 50, Deduct</i>	-1.11	
<i>For >50 To 100, Deduct</i>	-3.47	
<i>For >100 To 250, Deduct</i>	-6.94	
<i>For >250 To 500, Deduct</i>	-11.52	
<i>For >500, Deduct</i>	-16.10	
06 05 23 00-0104 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	101.80	
<i>For >10 To 50, Deduct</i>	-1.29	
<i>For >50 To 100, Deduct</i>	-4.48	
<i>For >100 To 250, Deduct</i>	-8.95	
<i>For >250 To 500, Deduct</i>	-14.72	
<i>For >500, Deduct</i>	-20.48	
06 05 23 00-0105 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	112.75	
<i>For >10 To 50, Deduct</i>	-1.35	
<i>For >50 To 100, Deduct</i>	-4.84	
<i>For >100 To 250, Deduct</i>	-9.68	
<i>For >250 To 500, Deduct</i>	-15.86	
<i>For >500, Deduct</i>	-22.05	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0106 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	166.04	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-6.35	
For >100 To 250, Deduct	-12.69	
For >250 To 500, Deduct	-20.50	
For >500, Deduct	-28.31	
06 05 23 00-0107 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	174.65	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-6.65	
For >100 To 250, Deduct	-13.30	
For >250 To 500, Deduct	-21.47	
For >500, Deduct	-29.64	
06 05 23 00-0108 316 Stainless Steel, Carriage Bolts <small>(06 05 23 00-0039)</small>		
06 05 23 00-0109 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	23.53	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.73	
For >100 To 250, Deduct	-3.46	
For >250 To 500, Deduct	-5.95	
For >500, Deduct	-8.44	
06 05 23 00-0110 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	26.17	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.80	
For >100 To 250, Deduct	-3.59	
For >250 To 500, Deduct	-6.15	
For >500, Deduct	-8.71	
06 05 23 00-0111 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	28.23	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.87	
For >250 To 500, Deduct	-6.62	
For >500, Deduct	-9.38	
06 05 23 00-0112 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	33.06	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.14	
For >100 To 250, Deduct	-4.29	
For >250 To 500, Deduct	-7.31	
For >500, Deduct	-10.33	
06 05 23 00-0113 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	44.79	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.44	
For >100 To 250, Deduct	-4.87	
For >250 To 500, Deduct	-8.19	
For >500, Deduct	-11.50	
06 05 23 00-0114 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	48.82	
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.63	
For >100 To 250, Deduct	-5.25	
For >250 To 500, Deduct	-8.82	
For >500, Deduct	-12.38	
06 05 23 00-0115 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Carriage Bolt.....	52.60	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.81	
For >100 To 250, Deduct	-5.62	
For >250 To 500, Deduct	-9.42	
For >500, Deduct	-13.22	
06 05 23 00-0116 Hex Lag Bolts <small>(06 05 23 00-0038)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0117 Zinc Plated Steel, Hex Lag Bolts <small>(06 05 23 00-0116)</small>		
06 05 23 00-0118 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	14.87	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.47	
For >100 To 250, Deduct	-2.94	
For >250 To 500, Deduct	-5.14	
For >500, Deduct	-7.34	
06 05 23 00-0119 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	15.01	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.47	
For >100 To 250, Deduct	-2.95	
For >250 To 500, Deduct	-5.15	
For >500, Deduct	-7.35	
06 05 23 00-0120 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	15.31	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.48	
For >100 To 250, Deduct	-2.96	
For >250 To 500, Deduct	-5.17	
For >500, Deduct	-7.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0121 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	16.40	
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-1.61	
<i>For >100 To 250, Deduct</i>	-3.21	
<i>For >250 To 500, Deduct</i>	-5.62	
<i>For >500, Deduct</i>	-8.02	
06 05 23 00-0122 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	17.83	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.73	
<i>For >100 To 250, Deduct</i>	-3.46	
<i>For >250 To 500, Deduct</i>	-6.04	
<i>For >500, Deduct</i>	-8.62	
06 05 23 00-0123 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	18.16	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.74	
<i>For >100 To 250, Deduct</i>	-3.47	
<i>For >250 To 500, Deduct</i>	-6.06	
<i>For >500, Deduct</i>	-8.65	
06 05 23 00-0124 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	22.25	
<i>For >10 To 50, Deduct</i>	-1.03	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100 To 250, Deduct</i>	-4.19	
<i>For >250 To 500, Deduct</i>	-7.31	
<i>For >500, Deduct</i>	-10.43	
06 05 23 00-0125 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	23.57	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.21	
<i>For >100 To 250, Deduct</i>	-4.42	
<i>For >250 To 500, Deduct</i>	-7.72	
<i>For >500, Deduct</i>	-11.01	
06 05 23 00-0126 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	18.17	
<i>For >10 To 50, Deduct</i>	-0.86	
<i>For >50 To 100, Deduct</i>	-1.75	
<i>For >100 To 250, Deduct</i>	-3.49	
<i>For >250 To 500, Deduct</i>	-6.10	
<i>For >500, Deduct</i>	-8.71	
06 05 23 00-0127 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	19.79	
<i>For >10 To 50, Deduct</i>	-0.92	
<i>For >50 To 100, Deduct</i>	-1.87	
<i>For >100 To 250, Deduct</i>	-3.74	
<i>For >250 To 500, Deduct</i>	-6.53	
<i>For >500, Deduct</i>	-9.32	
06 05 23 00-0128 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	21.55	
<i>For >10 To 50, Deduct</i>	-0.98	
<i>For >50 To 100, Deduct</i>	-2.00	
<i>For >100 To 250, Deduct</i>	-4.00	
<i>For >250 To 500, Deduct</i>	-6.98	
<i>For >500, Deduct</i>	-9.96	
06 05 23 00-0129 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	24.54	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.25	
<i>For >100 To 250, Deduct</i>	-4.50	
<i>For >250 To 500, Deduct</i>	-7.84	
<i>For >500, Deduct</i>	-11.17	
06 05 23 00-0130 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	28.94	
<i>For >10 To 50, Deduct</i>	-1.26	
<i>For >50 To 100, Deduct</i>	-2.62	
<i>For >100 To 250, Deduct</i>	-5.23	
<i>For >250 To 500, Deduct</i>	-9.11	
<i>For >500, Deduct</i>	-12.99	
06 05 23 00-0131 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	31.59	
<i>For >10 To 50, Deduct</i>	-1.38	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100 To 250, Deduct</i>	-5.71	
<i>For >250 To 500, Deduct</i>	-9.95	
<i>For >500, Deduct</i>	-14.18	
06 05 23 00-0132 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	26.54	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.30	
<i>For >100 To 250, Deduct</i>	-4.60	
<i>For >250 To 500, Deduct</i>	-7.99	
<i>For >500, Deduct</i>	-11.37	
06 05 23 00-0133 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	31.71	
<i>For >10 To 50, Deduct</i>	-1.26	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100 To 250, Deduct</i>	-5.37	
<i>For >250 To 500, Deduct</i>	-9.32	
<i>For >500, Deduct</i>	-13.27	
06 05 23 00-0134 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	35.14	
<i>For >10 To 50, Deduct</i>	-1.32	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100 To 250, Deduct</i>	-5.72	
<i>For >250 To 500, Deduct</i>	-9.90	
<i>For >500, Deduct</i>	-14.07	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0135	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	39.52	
			<i>For >10 To 50, Deduct</i>	-1.44	
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-6.28	
			<i>For >250 To 500, Deduct</i>	-10.86	
			<i>For >500, Deduct</i>	-15.43	
06 05 23 00-0136	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	44.32	
			<i>For >10 To 50, Deduct</i>	-1.49	
			<i>For >50 To 100, Deduct</i>	-3.35	
			<i>For >100 To 250, Deduct</i>	-6.69	
			<i>For >250 To 500, Deduct</i>	-11.53	
			<i>For >500, Deduct</i>	-16.37	
06 05 23 00-0137 Hot Dipped Galvanized Steel, Hex Lag Bolts <small>(06 05 23 00-0116)</small>					
06 05 23 00-0138	EA		1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	14.94	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100 To 250, Deduct</i>	-2.94	
			<i>For >250 To 500, Deduct</i>	-5.14	
			<i>For >500, Deduct</i>	-7.35	
06 05 23 00-0139	EA		1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.16	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100 To 250, Deduct</i>	-2.95	
			<i>For >250 To 500, Deduct</i>	-5.16	
			<i>For >500, Deduct</i>	-7.37	
06 05 23 00-0140	EA		1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.39	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100 To 250, Deduct</i>	-2.96	
			<i>For >250 To 500, Deduct</i>	-5.18	
			<i>For >500, Deduct</i>	-7.39	
06 05 23 00-0141	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.53	
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-1.61	
			<i>For >100 To 250, Deduct</i>	-3.22	
			<i>For >250 To 500, Deduct</i>	-5.63	
			<i>For >500, Deduct</i>	-8.03	
06 05 23 00-0142	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.02	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-1.73	
			<i>For >100 To 250, Deduct</i>	-3.46	
			<i>For >250 To 500, Deduct</i>	-6.05	
			<i>For >500, Deduct</i>	-8.64	
06 05 23 00-0143	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.39	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-1.74	
			<i>For >100 To 250, Deduct</i>	-3.48	
			<i>For >250 To 500, Deduct</i>	-6.08	
			<i>For >500, Deduct</i>	-8.68	
06 05 23 00-0144	EA		3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	22.70	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.11	
			<i>For >100 To 250, Deduct</i>	-4.21	
			<i>For >250 To 500, Deduct</i>	-7.34	
			<i>For >500, Deduct</i>	-10.47	
06 05 23 00-0145	EA		3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	24.32	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.23	
			<i>For >100 To 250, Deduct</i>	-4.46	
			<i>For >250 To 500, Deduct</i>	-7.78	
			<i>For >500, Deduct</i>	-11.09	
06 05 23 00-0146	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	18.51	
			<i>For >10 To 50, Deduct</i>	-0.86	
			<i>For >50 To 100, Deduct</i>	-1.75	
			<i>For >100 To 250, Deduct</i>	-3.51	
			<i>For >250 To 500, Deduct</i>	-6.12	
			<i>For >500, Deduct</i>	-8.74	
06 05 23 00-0147	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	19.97	
			<i>For >10 To 50, Deduct</i>	-0.92	
			<i>For >50 To 100, Deduct</i>	-1.88	
			<i>For >100 To 250, Deduct</i>	-3.75	
			<i>For >250 To 500, Deduct</i>	-6.55	
			<i>For >500, Deduct</i>	-9.34	
06 05 23 00-0148	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	21.88	
			<i>For >10 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.01	
			<i>For >100 To 250, Deduct</i>	-4.02	
			<i>For >250 To 500, Deduct</i>	-7.01	
			<i>For >500, Deduct</i>	-9.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0149 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	25.56	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.27	
<i>For >100 To 250, Deduct</i>	-4.55	
<i>For >250 To 500, Deduct</i>	-7.91	
<i>For >500, Deduct</i>	-11.28	
06 05 23 00-0150 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	29.43	
<i>For >10 To 50, Deduct</i>	-1.26	
<i>For >50 To 100, Deduct</i>	-2.63	
<i>For >100 To 250, Deduct</i>	-5.26	
<i>For >250 To 500, Deduct</i>	-9.15	
<i>For >500, Deduct</i>	-13.04	
06 05 23 00-0151 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	32.80	
<i>For >10 To 50, Deduct</i>	-1.38	
<i>For >50 To 100, Deduct</i>	-2.89	
<i>For >100 To 250, Deduct</i>	-5.77	
<i>For >250 To 500, Deduct</i>	-10.04	
<i>For >500, Deduct</i>	-14.30	
06 05 23 00-0152 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	27.29	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.32	
<i>For >100 To 250, Deduct</i>	-4.63	
<i>For >250 To 500, Deduct</i>	-8.04	
<i>For >500, Deduct</i>	-11.45	
06 05 23 00-0153 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	32.39	
<i>For >10 To 50, Deduct</i>	-1.26	
<i>For >50 To 100, Deduct</i>	-2.70	
<i>For >100 To 250, Deduct</i>	-5.41	
<i>For >250 To 500, Deduct</i>	-9.37	
<i>For >500, Deduct</i>	-13.34	
06 05 23 00-0154 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	36.27	
<i>For >10 To 50, Deduct</i>	-1.32	
<i>For >50 To 100, Deduct</i>	-2.89	
<i>For >100 To 250, Deduct</i>	-5.77	
<i>For >250 To 500, Deduct</i>	-9.98	
<i>For >500, Deduct</i>	-14.19	
06 05 23 00-0155 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	42.20	
<i>For >10 To 50, Deduct</i>	-1.44	
<i>For >50 To 100, Deduct</i>	-3.21	
<i>For >100 To 250, Deduct</i>	-6.42	
<i>For >250 To 500, Deduct</i>	-11.06	
<i>For >500, Deduct</i>	-15.70	
06 05 23 00-0156 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	47.19	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-3.42	
<i>For >100 To 250, Deduct</i>	-6.84	
<i>For >250 To 500, Deduct</i>	-11.75	
<i>For >500, Deduct</i>	-16.66	
06 05 23 00-0157 304/18-8 Stainless Steel, Hex Lag Bolts <small>(06 05 23 00-0116)</small>		
06 05 23 00-0158 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	15.57	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100 To 250, Deduct</i>	-2.97	
<i>For >250 To 500, Deduct</i>	-5.19	
<i>For >500, Deduct</i>	-7.41	
06 05 23 00-0159 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	16.28	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100 To 250, Deduct</i>	-3.01	
<i>For >250 To 500, Deduct</i>	-5.24	
<i>For >500, Deduct</i>	-7.48	
06 05 23 00-0160 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	18.19	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100 To 250, Deduct</i>	-3.10	
<i>For >250 To 500, Deduct</i>	-5.39	
<i>For >500, Deduct</i>	-7.67	
06 05 23 00-0161 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	18.36	
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100 To 250, Deduct</i>	-3.31	
<i>For >250 To 500, Deduct</i>	-5.76	
<i>For >500, Deduct</i>	-8.22	
06 05 23 00-0162 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	20.57	
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100 To 250, Deduct</i>	-3.59	
<i>For >250 To 500, Deduct</i>	-6.24	
<i>For >500, Deduct</i>	-8.89	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0163	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	21.79	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-1.83	
			<i>For >100 To 250, Deduct</i>	-3.65	
			<i>For >250 To 500, Deduct</i>	-6.33	
			<i>For >500, Deduct</i>	-9.02	
06 05 23 00-0164	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	42.24	
			<i>For >10 To 50, Deduct</i>	-1.03	
			<i>For >50 To 100, Deduct</i>	-2.59	
			<i>For >100 To 250, Deduct</i>	-5.19	
			<i>For >250 To 500, Deduct</i>	-8.81	
			<i>For >500, Deduct</i>	-12.43	
06 05 23 00-0165	EA		3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	58.27	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-3.08	
			<i>For >100 To 250, Deduct</i>	-6.16	
			<i>For >250 To 500, Deduct</i>	-10.32	
			<i>For >500, Deduct</i>	-14.48	
06 05 23 00-0166	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	21.96	
			<i>For >10 To 50, Deduct</i>	-0.86	
			<i>For >50 To 100, Deduct</i>	-1.84	
			<i>For >100 To 250, Deduct</i>	-3.68	
			<i>For >250 To 500, Deduct</i>	-6.38	
			<i>For >500, Deduct</i>	-9.08	
06 05 23 00-0167	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	25.65	
			<i>For >10 To 50, Deduct</i>	-0.92	
			<i>For >50 To 100, Deduct</i>	-2.02	
			<i>For >100 To 250, Deduct</i>	-4.04	
			<i>For >250 To 500, Deduct</i>	-6.97	
			<i>For >500, Deduct</i>	-9.91	
06 05 23 00-0168	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	31.21	
			<i>For >10 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100 To 250, Deduct</i>	-4.49	
			<i>For >250 To 500, Deduct</i>	-7.71	
			<i>For >500, Deduct</i>	-10.93	
06 05 23 00-0169	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	61.89	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-3.18	
			<i>For >100 To 250, Deduct</i>	-6.36	
			<i>For >250 To 500, Deduct</i>	-10.64	
			<i>For >500, Deduct</i>	-14.91	
06 05 23 00-0170	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	83.58	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100 To 250, Deduct</i>	-7.97	
			<i>For >250 To 500, Deduct</i>	-13.21	
			<i>For >500, Deduct</i>	-18.46	
06 05 23 00-0171	EA		1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	97.35	
			<i>For >10 To 50, Deduct</i>	-1.38	
			<i>For >50 To 100, Deduct</i>	-4.50	
			<i>For >100 To 250, Deduct</i>	-9.00	
			<i>For >250 To 500, Deduct</i>	-14.88	
			<i>For >500, Deduct</i>	-20.76	
06 05 23 00-0172	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	89.74	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-3.88	
			<i>For >100 To 250, Deduct</i>	-7.76	
			<i>For >250 To 500, Deduct</i>	-12.73	
			<i>For >500, Deduct</i>	-17.69	
06 05 23 00-0173	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	102.64	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-4.46	
			<i>For >100 To 250, Deduct</i>	-8.92	
			<i>For >250 To 500, Deduct</i>	-14.64	
			<i>For >500, Deduct</i>	-20.36	
06 05 23 00-0174	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	106.82	
			<i>For >10 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-4.65	
			<i>For >100 To 250, Deduct</i>	-9.30	
			<i>For >250 To 500, Deduct</i>	-15.27	
			<i>For >500, Deduct</i>	-21.24	
06 05 23 00-0175	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	146.84	
			<i>For >10 To 50, Deduct</i>	-1.44	
			<i>For >50 To 100, Deduct</i>	-5.82	
			<i>For >100 To 250, Deduct</i>	-11.65	
			<i>For >250 To 500, Deduct</i>	-18.91	
			<i>For >500, Deduct</i>	-26.16	
06 05 23 00-0176	EA		3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	160.00	
			<i>For >10 To 50, Deduct</i>	-1.49	
			<i>For >50 To 100, Deduct</i>	-6.24	
			<i>For >100 To 250, Deduct</i>	-12.48	
			<i>For >250 To 500, Deduct</i>	-20.21	
			<i>For >500, Deduct</i>	-27.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0177 Timber Bolts <small>(06 05 23 00-0038)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0178 EA 5/8" - 11 x 4" Threaded x 8" OAL A153 Galvanized Timber Bolt (Fastenal #11103914)	33.80	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.66	
<i>For >100 To 250, Deduct</i>	-5.33	
<i>For >250 To 500, Deduct</i>	-9.21	
<i>For >500, Deduct</i>	-13.08	
06 05 23 00-0179 EA 5/8" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103915)	38.13	
<i>For >10 To 50, Deduct</i>	-1.36	
<i>For >50 To 100, Deduct</i>	-2.99	
<i>For >100 To 250, Deduct</i>	-5.98	
<i>For >250 To 500, Deduct</i>	-10.33	
<i>For >500, Deduct</i>	-14.67	
06 05 23 00-0180 EA 5/8" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103916)	41.09	
<i>For >10 To 50, Deduct</i>	-1.45	
<i>For >50 To 100, Deduct</i>	-3.20	
<i>For >100 To 250, Deduct</i>	-6.39	
<i>For >250 To 500, Deduct</i>	-11.04	
<i>For >500, Deduct</i>	-15.68	
06 05 23 00-0181 EA 5/8" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103917)	45.38	
<i>For >10 To 50, Deduct</i>	-1.53	
<i>For >50 To 100, Deduct</i>	-3.43	
<i>For >100 To 250, Deduct</i>	-6.86	
<i>For >250 To 500, Deduct</i>	-11.81	
<i>For >500, Deduct</i>	-16.77	
06 05 23 00-0182 EA 5/8" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103918)	48.22	
<i>For >10 To 50, Deduct</i>	-1.61	
<i>For >50 To 100, Deduct</i>	-3.62	
<i>For >100 To 250, Deduct</i>	-7.25	
<i>For >250 To 500, Deduct</i>	-12.48	
<i>For >500, Deduct</i>	-17.71	
06 05 23 00-0183 EA 5/8" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103919)	50.11	
<i>For >10 To 50, Deduct</i>	-1.68	
<i>For >50 To 100, Deduct</i>	-3.78	
<i>For >100 To 250, Deduct</i>	-7.55	
<i>For >250 To 500, Deduct</i>	-13.01	
<i>For >500, Deduct</i>	-18.47	
06 05 23 00-0184 EA 3/4" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103920)	44.64	
<i>For >10 To 50, Deduct</i>	-1.45	
<i>For >50 To 100, Deduct</i>	-3.29	
<i>For >100 To 250, Deduct</i>	-6.57	
<i>For >250 To 500, Deduct</i>	-11.30	
<i>For >500, Deduct</i>	-16.04	
06 05 23 00-0185 EA 3/4" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103921)	46.66	
<i>For >10 To 50, Deduct</i>	-1.51	
<i>For >50 To 100, Deduct</i>	-3.42	
<i>For >100 To 250, Deduct</i>	-6.85	
<i>For >250 To 500, Deduct</i>	-11.78	
<i>For >500, Deduct</i>	-16.71	
06 05 23 00-0186 EA 3/4" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103922)	51.31	
<i>For >10 To 50, Deduct</i>	-1.59	
<i>For >50 To 100, Deduct</i>	-3.67	
<i>For >100 To 250, Deduct</i>	-7.35	
<i>For >250 To 500, Deduct</i>	-12.62	
<i>For >500, Deduct</i>	-17.88	
06 05 23 00-0187 EA 3/4" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103923)	54.92	
<i>For >10 To 50, Deduct</i>	-1.68	
<i>For >50 To 100, Deduct</i>	-3.89	
<i>For >100 To 250, Deduct</i>	-7.78	
<i>For >250 To 500, Deduct</i>	-13.34	
<i>For >500, Deduct</i>	-18.90	
06 05 23 00-0188 EA 3/4" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103924)	58.80	
<i>For >10 To 50, Deduct</i>	-1.76	
<i>For >50 To 100, Deduct</i>	-4.11	
<i>For >100 To 250, Deduct</i>	-8.22	
<i>For >250 To 500, Deduct</i>	-14.08	
<i>For >500, Deduct</i>	-19.95	
06 05 23 00-0189 Supports <small>(06 05 23)</small>		
06 05 23 00-0190 Shear Plates <small>(06 05 23 00-0189)</small>		
06 05 23 00-0191 EA 2-5/8" Diameter, Shear Plate	12.41	4.34
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.04	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-3.61	
<i>For >500, Deduct</i>	-5.15	
06 05 23 00-0192 EA 4" Diameter, Shear Plate	16.31	4.57
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.17	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-4.02	
<i>For >500, Deduct</i>	-5.70	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0193			Sill Anchors <small>(06 05 23 00-0189)</small>		
06 05 23 00-0194	EA		Sill Anchor Embedded In Concrete.....	10.90	4.57
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.04	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-3.62	
			<i>For >500, Deduct</i>	-5.16	
06 05 23 00-0195			Spike Grids <small>(06 05 23 00-0189)</small>		
06 05 23 00-0196	EA		4" x 4" Flat Or Curved Spike Grid.....	10.71	4.34
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-3.49	
			<i>For >500, Deduct</i>	-4.98	
06 05 23 00-0197			Split Rings <small>(06 05 23 00-0189)</small>		
06 05 23 00-0198	EA		2-1/2" Diameter Split Ring.....	11.29	4.34
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-3.53	
			<i>For >500, Deduct</i>	-5.03	
06 05 23 00-0199	EA		4" Diameter Split Ring.....	13.21	4.80
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100 To 250, Deduct</i>	-2.26	
			<i>For >250 To 500, Deduct</i>	-3.92	
			<i>For >500, Deduct</i>	-5.58	
06 05 23 00-0200			Toothed Rings <small>(06 05 23 00-0189)</small>		
06 05 23 00-0201	EA		2-5/8" Or 4" Toothed Ring.....	13.52	4.34
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-3.70	
			<i>For >500, Deduct</i>	-5.26	
06 05 23 00-0202			Straps And Shields <small>(06 05 23)</small>		
06 05 23 00-0203			Shield Plate <small>(06 05 23 00-0202)</small>		
06 05 23 00-0204	EA		5" Wide x 8" Long, 16 Gauge, Shield Plate (Simpson Strong Tie® PSPN58Z).....	7.90	
			<i>For >10 To 50, Deduct</i>	-0.07	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500, Deduct</i>	-1.46	
06 05 23 00-0205	EA		5" Wide x 16" Long, 16 Gauge, Shield Plate (Simpson Strong Tie® PSPN516Z).....	11.91	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.33	
			<i>For >500, Deduct</i>	-2.00	
06 05 23 00-0206			Strap Ties <small>(06 05 23 00-0202)</small>		
06 05 23 00-0207	EA		1-1/4" Wide x 9" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA9).....	3.17	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500, Deduct</i>	-0.86	
06 05 23 00-0208	EA		1-1/4" Wide x 12" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA12).....	3.25	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.54	
			<i>For >500, Deduct</i>	-0.86	
06 05 23 00-0209	EA		1-1/4" Wide x 15" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA15).....	4.30	
			<i>For >10 To 50, Deduct</i>	-0.07	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500, Deduct</i>	-1.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0210 EA 1-1/4" Wide x 18" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA18).....	4.53	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.71	
<i>For >500, Deduct</i>	-1.13	
06 05 23 00-0211 EA 1-1/4" Wide x 21" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA21).....	4.73	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.38	
<i>For >250 To 500, Deduct</i>	-0.72	
<i>For >500, Deduct</i>	-1.15	
06 05 23 00-0212 EA 1-1/4" Wide x 24" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA24).....	5.51	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.45	
<i>For >250 To 500, Deduct</i>	-0.85	
<i>For >500, Deduct</i>	-1.36	
06 05 23 00-0213 EA 1-1/4" Wide x 30" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA30).....	6.07	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.89	
<i>For >500, Deduct</i>	-1.41	
06 05 23 00-0214 EA 1-1/4" Wide x 36" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA36).....	7.23	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.67	
06 05 23 00-0215 EA 1-1/4" Wide x 9" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA9).....	3.25	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100 To 250, Deduct</i>	-0.28	
<i>For >250 To 500, Deduct</i>	-0.54	
<i>For >500, Deduct</i>	-0.86	
06 05 23 00-0216 EA 1-1/4" Wide x 12" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA12).....	3.52	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.56	
<i>For >500, Deduct</i>	-0.89	
06 05 23 00-0217 EA 1-1/4" Wide x 15" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA15).....	4.47	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.70	
<i>For >500, Deduct</i>	-1.12	
06 05 23 00-0218 EA 1-1/4" Wide x 18" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA18).....	4.77	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.72	
<i>For >500, Deduct</i>	-1.15	
06 05 23 00-0219 EA 1-1/4" Wide x 21" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA21).....	5.06	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.75	
<i>For >500, Deduct</i>	-1.18	
06 05 23 00-0220 EA 1-1/4" Wide x 24" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA24).....	5.95	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.89	
<i>For >500, Deduct</i>	-1.40	
06 05 23 00-0221 EA 1-1/4" Wide x 30" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA30).....	6.40	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.92	
<i>For >500, Deduct</i>	-1.45	
06 05 23 00-0222 EA 1-1/4" Wide x 36" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA36).....	7.76	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.09	
<i>For >500, Deduct</i>	-1.72	
06 05 23 00-0223 EA 1-1/4" Wide x 36" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA49).....	10.03	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.74	
<i>For >250 To 500, Deduct</i>	-1.34	
<i>For >500, Deduct</i>	-2.08	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0224	EA		1-1/4" Wide x 9" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST9).....	3.61	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500, Deduct</i>	-0.90	
06 05 23 00-0225	EA		1-1/4" Wide x 12" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST12).....	3.93	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500, Deduct</i>	-0.93	
06 05 23 00-0226	EA		1-1/4" Wide x 18" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST18).....	5.30	
			<i>For >10 To 50, Deduct</i>	-0.07	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.76	
			<i>For >500, Deduct</i>	-1.20	
06 05 23 00-0227	EA		1-1/4" Wide x 22" Long, 16 Gauge, Strap Tie® (Simpson Strong Tie ST22).....	6.86	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.52	
			<i>For >250 To 500, Deduct</i>	-0.95	
			<i>For >500, Deduct</i>	-1.49	
06 05 23 00-0228	EA		1-3/8" Wide x 6" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS6).....	4.55	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.99	
06 05 23 00-0229	EA		1-3/8" Wide x 8" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS8).....	4.81	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-1.02	
06 05 23 00-0230	EA		1-3/8" Wide x 12" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS12).....	6.53	
			<i>For >10 To 50, Deduct</i>	-0.07	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500, Deduct</i>	-1.33	
06 05 23 00-0231	EA		2-1/16" Wide x 27" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST27).....	11.57	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.31	
			<i>For >500, Deduct</i>	-1.96	
06 05 23 00-0232	EA		2-1/16" Wide x 37" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST37).....	15.62	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.49	
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.68	
			<i>For >500, Deduct</i>	-2.51	
06 05 23 00-0233	EA		2-1/16" Wide x 48" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST48).....	20.62	
			<i>For >10 To 50, Deduct</i>	-0.12	
			<i>For >50 To 100, Deduct</i>	-0.63	
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-3.14	
06 05 23 00-0234	EA		2-1/16" Wide x 60" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST60).....	29.80	
			<i>For >10 To 50, Deduct</i>	-0.13	
			<i>For >50 To 100, Deduct</i>	-0.88	
			<i>For >100 To 250, Deduct</i>	-1.75	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500, Deduct</i>	-4.19	
06 05 23 00-0235	EA		2-1/16" Wide x 72" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST72).....	38.37	
			<i>For >10 To 50, Deduct</i>	-0.15	
			<i>For >50 To 100, Deduct</i>	-1.11	
			<i>For >100 To 250, Deduct</i>	-2.21	
			<i>For >250 To 500, Deduct</i>	-3.61	
			<i>For >500, Deduct</i>	-5.18	
06 05 23 00-0236	EA		3" Wide x 28" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC28).....	12.39	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500, Deduct</i>	-2.05	
06 05 23 00-0237	EA		3" Wide x 40" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC40).....	16.82	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.52	
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500, Deduct</i>	-2.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0238 EA 3" Wide x 52" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC52).....	20.95	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-3.17	
06 05 23 00-0239 EA 3" Wide x 66" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC66).....	30.44	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.89	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.94	
<i>For >500, Deduct</i>	-4.26	
06 05 23 00-0240 Twist Strap Ties <small>(06 05 23 00-0202)</small>		
06 05 23 00-0241 EA 1-1/4" Wide x 9" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS9).....	4.05	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100 To 250, Deduct</i>	-0.32	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500, Deduct</i>	-0.94	
06 05 23 00-0242 EA 1-1/4" Wide x 12" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS12).....	4.66	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.64	
<i>For >500, Deduct</i>	-1.00	
06 05 23 00-0243 EA 1-1/4" Wide x 18" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS18).....	6.28	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.30	
06 05 23 00-0244 EA 1-1/4" Wide x 22" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS22).....	7.44	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.55	
<i>For >250 To 500, Deduct</i>	-1.00	
<i>For >500, Deduct</i>	-1.55	
06 05 23 00-0245 Retrofit Plate Strap <small>(06 05 23 00-0202)</small>		
06 05 23 00-0246 EA 1-3/8" Wide x 18" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS18)	5.61	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100 To 250, Deduct</i>	-0.43	
<i>For >250 To 500, Deduct</i>	-0.79	
<i>For >500, Deduct</i>	-1.23	
06 05 23 00-0247 EA 1-3/8" Wide x 22" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS22)	6.18	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.83	
<i>For >500, Deduct</i>	-1.29	
06 05 23 00-0248 EA 1-3/8" Wide x 28" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS28)	7.06	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500, Deduct</i>	-1.38	
06 05 23 00-0249 Stud Shoe <small>(06 05 23 00-0202)</small>		
06 05 23 00-0250 EA 6" High With 3-1/4" Wide Tabs For 2X Stud, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS1.5).....	10.21	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100 To 250, Deduct</i>	-0.69	
<i>For >250 To 500, Deduct</i>	-1.20	
<i>For >500, Deduct</i>	-1.83	
06 05 23 00-0251 EA 6" High With 3-1/4" Wide Tabs For 3X Stud, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS2.5).....	15.30	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100 To 250, Deduct</i>	-0.94	
<i>For >250 To 500, Deduct</i>	-1.59	
<i>For >500, Deduct</i>	-2.34	
06 05 23 00-0252 EA 6" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS3).....	16.75	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.01	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.48	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0253	EA		6" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie SS4.5).....	21.61	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.63	
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.97	
06 05 23 00-0254	EA		7-1/8" High With 3-1/4" Wide Tabs For 2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-SDS1.5).....	24.24	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.69	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-3.23	
06 05 23 00-0255	EA		7-1/8" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-2-SDS3)	29.90	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.84	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.68	
			<i>For >500, Deduct</i>	-3.80	
06 05 23 00-0256	EA		7-1/8" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-3-SDS3)	29.90	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.84	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.68	
			<i>For >500, Deduct</i>	-3.80	
06 05 23 00-0257	EA		7-1/8" High With 3-1/4" Wide Tabs For 4X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS4-SDS3).....	29.90	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.84	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.68	
			<i>For >500, Deduct</i>	-3.80	
06 05 23 00-0258			Nail Stops <small>(06 05 23 00-0202)</small>		
06 05 23 00-0259	EA		1-1/2" Wide x 3" Long, 16 Gauge, Nail Stops (Simpson Strong Tie® NS1).....	2.97	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500, Deduct</i>	-0.84	
06 05 23 00-0260	EA		1-1/2" Wide x 6" Long, 16 Gauge, Nail Stops (Simpson Strong Tie® NS2).....	3.41	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500, Deduct</i>	-0.88	
06 05 73			Wood Treatment <small>(06 05)</small>		
06 05 73 13			Fire-Retardant Wood Treatment <small>(06 05 73)</small>		
06 05 73 13-0001			Preservative Treated Lumber <small>(06 05 73 13)</small>		
06 05 73 13-0002			Fire Retardant Treatment (FRT) For Lumber <small>(06 05 73 13-0001)</small>		
06 05 73 13-0003	MBF		Fire Retardant Treatment (FRT) For Lumber.....	618.57	
06 05 73 33			Preservative Wood Treatment <small>(06 05 73)</small>		
06 05 73 33-0001			Preservative Treatment For Marine And Fresh Water Uses <small>(06 05 73 33)</small>		
06 05 73 33-0002	MBF		Preservative Treatment For Marine And Fresh Water Lumber	141.74	
06 10			Rough Carpentry <small>(06)</small>		
06 11			Wood Framing <small>(06 10)</small>		
			Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal. See CSI section 06 05 23 00-0000 for anchors and supports.		
06 11 13			Engineered Wood Products <small>(06 11)</small>		
			Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.		
06 11 13 00-0001			Built-Up Members <small>(06 11 13)</small>		
			Note: A structural framing member made from fastening separate pieces of lumber together.		
06 11 13 00-0002			Built-Up Beams Or Joists <small>(06 11 13 00-0001)</small>		
06 11 13 00-0003	LF		Two 2" x 6" Built-up Wood Beam Or Joist.....	4.81	2.00
			<i>For Each Additional 2" x..." In The Built Up Member, Add</i>	0.87	
06 11 13 00-0004	LF		Two 2" x 8" Built-up Wood Beam Or Joist.....	6.00	2.36
			<i>For Each Additional 2" x..." In The Built Up Member, Add</i>	1.24	
06 11 13 00-0005	LF		Two 2" x 10" Built-up Wood Beam Or Joist.....	7.68	2.83
			<i>For Each Additional 2" x..." In The Built Up Member, Add</i>	1.72	
06 11 13 00-0006			Built-Up Posts <small>(06 11 13 00-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 13 00-0007 LF Two 2" x 6" Built-up Wood Post..... <i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	4.81 <i>0.87</i>	2.00
06 11 13 00-0008 LF Two 2" x 8" Built-up Wood Post..... <i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	6.00 <i>1.24</i>	2.36
06 11 13 00-0009 LF Two 2" x 10" Built-up Wood Post..... <i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	7.68 <i>1.72</i>	2.83
 06 11 16 Mechanically Graded Lumber (06 11)		
06 11 16 00-0001 Rafters And Joists (06 11 16)		
06 11 16 00-0002 Rafters (06 11 16 00-0001) Note: An inclined roof framing member to which a roof covering is attached.		
06 11 16 00-0003 LF 2" x 6" Wood Rafter	2.76	1.41
06 11 16 00-0004 LF 2" x 8" Wood Rafter	3.24	1.53
06 11 16 00-0005 LF 2" x 10" Wood Rafter	4.66	2.24
06 11 16 00-0006 LF 2" x 12" Wood Rafter	5.38	2.48
06 11 16 00-0007 LF 2" x 14" Wood Rafter	5.84	2.71
06 11 16 00-0008 LF 2" x 6" Pressure Treated Wood Rafter.....	2.88	1.41
06 11 16 00-0009 LF 2" x 8" Pressure Treated Wood Rafter.....	3.39	1.53
06 11 16 00-0010 LF 2" x 10" Pressure Treated Wood Rafter.....	4.66	2.24
06 11 16 00-0011 LF 2" x 12" Pressure Treated Wood Rafter.....	5.55	2.48
 06 11 16 00-0012 Joists (06 11 16 00-0001) Note: A series of parallel beams to support floors or ceilings.		
06 11 16 00-0013 LF 2" x 6" Wood Floor Joist.....	2.40	1.18
06 11 16 00-0014 LF 2" x 8" Wood Floor Joist.....	3.01	1.30
06 11 16 00-0015 LF 2" x 10" Wood Floor Joist.....	3.84	1.65
06 11 16 00-0016 LF 2" x 12" Wood Floor Joist.....	4.56	1.89
06 11 16 00-0017 LF 2" x 14" Wood Floor Joist.....	5.02	2.00
06 11 16 00-0018 LF 2" x 6" Pressure Treated Wood Floor Joist.....	2.52	1.18
06 11 16 00-0019 LF 2" x 8" Pressure Treated Wood Floor Joist.....	3.16	1.30
06 11 16 00-0020 LF 2" x 10" Pressure Treated Wood Floor Joist.....	3.84	1.65
06 11 16 00-0021 LF 2" x 12" Pressure Treated Wood Floor Joist.....	4.73	1.89
 06 11 16 00-0022 Purlins (06 11 16 00-0001) Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.		
06 11 16 00-0023 LF 2" x 4" Wood Purlin	1.93	0.71
06 11 16 00-0024 LF 2" x 6" Wood Purlin	2.42	0.78
06 11 16 00-0025 LF 2" x 8" Wood Purlin	2.95	0.86
06 11 16 00-0026 LF 2" x 10" Wood Purlin.....	3.61	0.94
06 11 16 00-0027 LF 2" x 4" Pressure Treated Wood Purlin	2.00	0.71
06 11 16 00-0028 LF 2" x 6" Pressure Treated Wood Purlin	2.54	0.78
06 11 16 00-0029 LF 2" x 8" Pressure Treated Wood Purlin	3.10	0.86
06 11 16 00-0030 LF 2" x 10" Pressure Treated Wood Purlin	3.61	0.94
 06 11 16 00-0031 Exposed Rafters Or Joists (06 11 16 00-0001)		
06 11 16 00-0032 Redwood Rafters Or Joists (06 11 16 00-0031)		
06 11 16 00-0033 LF 2" x 6" Redwood Rafter Or Joist	3.68	1.18
06 11 16 00-0034 LF 2" x 8" Redwood Rafter Or Joist	4.49	1.30
06 11 16 00-0035 LF 2" x 10" Redwood Rafter Or Joist	5.60	1.65
06 11 16 00-0036 LF 2" x 12" Redwood Rafter Or Joist	6.79	1.89
 06 11 16 00-0037 Cedar Rafters Or Joists (06 11 16 00-0031)		
06 11 16 00-0038 LF 2" x 6" Cedar Rafter Or Joist.....	2.41	1.18
06 11 16 00-0039 LF 2" x 8" Cedar Rafter Or Joist.....	2.71	1.30
06 11 16 00-0040 LF 2" x 10" Cedar Rafter Or Joist.....	3.11	1.65
06 11 16 00-0041 LF 2" x 12" Cedar Rafter Or Joist.....	3.53	1.89
 06 11 16 00-0042 Oak Rafters Or Joists (06 11 16 00-0031)		
06 11 16 00-0043 LF 2" x 6" Oak Rafter Or Joist.....	2.93	1.18
06 11 16 00-0044 LF 2" x 8" Oak Rafter Or Joist.....	4.03	1.30
06 11 16 00-0045 LF 2" x 10" Oak Rafter Or Joist.....	5.23	1.65
06 11 16 00-0046 LF 2" x 12" Oak Rafter Or Joist.....	6.44	1.89
 06 11 16 00-0047 Framing (06 11 16)		
06 11 16 00-0048 Partition Framing (06 11 16 00-0047)		
06 11 16 00-0049 LF 2" x 4" Wood Stud Framing, For Partition Walls	1.88	0.94
06 11 16 00-0050 LF 2" x 6" Wood Stud Framing, For Partition Walls	2.28	1.01
06 11 16 00-0051 LF 2" x 8" Wood Stud Framing, For Partition Walls	2.71	1.07
06 11 16 00-0052 LF 2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls.....	1.95	0.94
06 11 16 00-0053 LF 2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.40	1.01
06 11 16 00-0054 LF 2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.86	1.07

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0055			Wall Framing Assemblies By The SF <small>(06 11 16 00-0047)</small> Note: Includes single bottom and double top plates, center support bracing, vertical studs and appropriate fastening devices. Excludes blocking for wall mounted fixtures or cabinets. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.		
06 11 16 00-0056			Wall Framing By The SF, 12" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0057	SF		2" x 4" Wood Wall Framing At 12" On Center.....	2.43	1.14
			For Up To 200, Add	0.82	
			For >200 To 500, Add	0.41	
06 11 16 00-0058	SF		2" x 6" Wood Wall Framing At 12" On Center.....	3.27	1.46
			For Up To 200, Add	1.08	
			For >200 To 500, Add	0.54	
06 11 16 00-0059	SF		2" x 8" Wood Wall Framing At 12" On Center.....	4.37	1.95
			For Up To 200, Add	1.45	
			For >200 To 500, Add	0.72	
06 11 16 00-0060			Wall Framing By The SF, 16" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0061	SF		2" x 4" Wood Wall Framing At 16" On Center.....	1.98	0.92
			For Up To 200, Add	0.67	
			For >200 To 500, Add	0.33	
06 11 16 00-0062	SF		2" x 6" Wood Wall Framing At 16" On Center.....	2.72	1.22
			For Up To 200, Add	0.90	
			For >200 To 500, Add	0.45	
06 11 16 00-0063	SF		2" x 8" Wood Wall Framing At 16" On Center.....	3.64	1.62
			For Up To 200, Add	1.21	
			For >200 To 500, Add	0.60	
06 11 16 00-0064			Wall Framing By The SF, 24" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0065	SF		2" x 4" Wood Wall Framing At 24" On Center.....	1.56	0.72
			For Up To 200, Add	0.53	
			For >200 To 500, Add	0.26	
06 11 16 00-0066	SF		2" x 6" Wood Wall Framing At 24" On Center.....	2.14	0.94
			For Up To 200, Add	0.71	
			For >200 To 500, Add	0.35	
06 11 16 00-0067	SF		2" x 8" Wood Wall Framing At 24" On Center.....	2.85	1.27
			For Up To 200, Add	0.94	
			For >200 To 500, Add	0.47	
06 11 16 00-0068			Sills And Plates <small>(06 11 16)</small>		
06 11 16 00-0069			Sills <small>(06 11 16 00-0068)</small> Note: A horizontal member which rests on and is attached to the foundation.		
06 11 16 00-0070	LF		2" x 4" Wood Sill.....	3.17	1.77
06 11 16 00-0071	LF		2" x 6" Wood Sill.....	3.81	2.00
06 11 16 00-0072	LF		2" x 8" Wood Sill.....	4.57	2.24
06 11 16 00-0073	LF		2" x 4" Pressure Treated Wood Sill.....	3.24	1.77
06 11 16 00-0074	LF		2" x 6" Pressure Treated Wood Sill.....	3.93	2.00
06 11 16 00-0075	LF		2" x 8" Pressure Treated Wood Sill.....	4.72	2.24
06 11 16 00-0076			Plates <small>(06 11 16 00-0068)</small> Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.		
06 11 16 00-0077	LF		2" x 4" Wood Plate.....	3.17	1.77
06 11 16 00-0078	LF		2" x 6" Wood Plate.....	3.81	2.00
06 11 16 00-0079	LF		2" x 8" Wood Plate.....	4.54	2.24
06 11 16 00-0080	LF		2" x 4" Pressure Treated Wood Plate.....	3.24	1.77
06 11 16 00-0081	LF		2" x 6" Pressure Treated Wood Plate.....	3.93	2.00
06 11 16 00-0082	LF		2" x 8" Pressure Treated Wood Plate.....	4.69	2.24
06 11 16 00-0083			Sills And Plates From Redwood <small>(06 11 16 00-0068)</small>		
06 11 16 00-0084			Construction Grade/Rough <small>(06 11 16 00-0083)</small>		
06 11 16 00-0085	LF		2" x 6" Redwood, Construction Grade/Rough.....	5.55	2.00
06 11 16 00-0086	LF		2" x 8" Redwood, Construction Grade/Rough.....	7.30	2.24
06 11 16 00-0087	LF		2" x 10" Redwood, Construction Grade/Rough.....	8.87	2.48
06 11 16 00-0088	LF		2" x 12" Redwood, Construction Grade/Rough.....	10.71	2.71
06 11 16 00-0089			Con Heart/Smooth <small>(06 11 16 00-0083)</small>		
06 11 16 00-0090	LF		2" x 6" Redwood, Con Heart/Smooth.....	6.66	2.00
06 11 16 00-0091	LF		2" x 8" Redwood, Con Heart/Smooth.....	8.97	2.24
06 11 16 00-0092	LF		2" x 10" Redwood, Con Heart/Smooth.....	11.69	2.48
06 11 16 00-0093	LF		2" x 12" Redwood, Con Heart/Smooth.....	14.06	2.71
06 11 16 00-0094			Suspended Ceiling Framing <small>(06 11 16)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0095 LF 1" x 2" Wood Suspended Ceiling Framing.....	2.60	1.53
06 11 16 00-0096 LF 1" x 3" Wood Suspended Ceiling Framing.....	2.84	1.65
06 11 16 00-0097 LF 2" x 2" Wood Suspended Ceiling Framing.....	3.06	1.77
06 11 16 00-0098 LF 2" x 4" Wood Suspended Ceiling Framing.....	3.65	2.00
06 11 16 00-0099 LF 1" x 2" Pressure Treated Wood Suspended Ceiling Framing.....	2.72	1.53
06 11 16 00-0100 LF 1" x 3" Pressure Treated Wood Suspended Ceiling Framing.....	2.82	1.65
06 11 16 00-0101 LF 2" x 2" Pressure Treated Wood Suspended Ceiling Framing.....	3.12	1.77
06 11 16 00-0102 LF 2" x 4" Pressure Treated Wood Suspended Ceiling Framing.....	3.66	2.00
06 11 16 00-0103 Posts And Girts (06 11 16)		
06 11 16 00-0104 Posts (06 11 16 00-0103)		
Note: A vertical, upright framing member.		
06 11 16 00-0105 LF 4" x 4" Wood Post.....	4.43	2.24
06 11 16 00-0106 LF 4" x 5" Wood Post.....	5.06	2.59
06 11 16 00-0107 LF 4" x 6" Wood Post.....	5.57	2.83
06 11 16 00-0108 LF 6" x 6" Wood Post.....	6.19	3.07
06 11 16 00-0109 LF 8" x 8" Wood Post.....	6.82	3.19
06 11 16 00-0110 LF 10" x 10" Wood Post.....	7.43	3.66
06 11 16 00-0111 LF 4" x 4" Pressure Treated Wood Post.....	4.90	2.24
06 11 16 00-0112 LF 3" x 6" Pressure Treated Wood Post.....	5.53	2.83
06 11 16 00-0113 LF 4" x 6" Pressure Treated Wood Post.....	6.30	2.83
06 11 16 00-0114 LF 6" x 6" Pressure Treated Wood Post.....	7.77	3.07
06 11 16 00-0115 Girts (06 11 16 00-0103)		
Note: A horizontal member at intermediate level between columns, studs, or posts.		
06 11 16 00-0116 LF 2" x 4" Wood Girt.....	2.22	0.85
06 11 16 00-0117 LF 2" x 6" Wood Girt.....	2.73	0.93
06 11 16 00-0118 LF 2" x 8" Wood Girt.....	3.29	1.03
06 11 16 00-0119 LF 2" x 10" Wood Girt.....	3.98	1.13
06 11 16 00-0120 LF 4" x 4" Wood Girt.....	4.31	1.70
06 11 16 00-0121 LF 4" x 5" Wood Girt.....	4.94	1.91
06 11 16 00-0122 LF 4" x 6" Wood Girt.....	5.55	2.12
06 11 16 00-0123 LF 6" x 6" Wood Girt.....	6.17	2.34
06 11 16 00-0124 LF 8" x 8" Wood Girt.....	6.81	2.55
06 11 16 00-0125 LF 10" x 10" Wood Girt.....	7.42	2.77
06 11 16 00-0126 LF 2" x 4" Pressure Treated Wood Girt.....	2.29	0.85
06 11 16 00-0127 LF 2" x 6" Pressure Treated Wood Girt.....	2.85	0.93
06 11 16 00-0128 LF 2" x 8" Pressure Treated Wood Girt.....	3.44	1.03
06 11 16 00-0129 LF 2" x 10" Pressure Treated Wood Girt.....	3.98	1.13
06 11 16 00-0130 LF 4" x 4" Pressure Treated Wood Girt.....	4.90	1.70
06 11 16 00-0131 LF 3" x 6" Pressure Treated Wood Girt.....	5.53	2.12
06 11 16 00-0132 LF 4" x 6" Pressure Treated Wood Girt.....	6.30	2.12
06 11 16 00-0133 LF 6" x 6" Pressure Treated Wood Girt.....	7.77	2.34
06 11 16 00-0134 Construction Grade/Rough Redwood Posts (06 11 16 00-0103)		
06 11 16 00-0135 LF 4" x 4" Redwood, Construction Grade/Rough Post.....	8.42	2.24
For Smooth "Clear", Add		
	1.01	
06 11 16 00-0136 LF 4" x 5" Redwood, Construction Grade/Rough Post.....	10.10	2.59
For Smooth "Clear", Add		
	1.26	
06 11 16 00-0137 LF 4" x 6" Redwood, Construction Grade/Rough Post.....	11.80	2.83
For Smooth "Clear", Add		
	1.51	
06 11 16 00-0138 LF 4" x 8" Redwood, Construction Grade/Rough Post.....	14.51	2.91
For Smooth "Clear", Add		
	2.02	
06 11 16 00-0139 LF 4" x 10" Redwood, Construction Grade/Rough Post.....	17.30	3.10
For Smooth "Clear", Add		
	2.52	
06 11 16 00-0140 LF 6" x 6" Redwood, Construction Grade/Rough Post.....	16.01	3.07
For Smooth "Clear", Add		
	2.27	
06 11 16 00-0141 LF 6" x 8" Redwood, Construction Grade/Rough Post.....	19.97	3.19
For Smooth "Clear", Add		
	3.02	
06 11 16 00-0142 LF 6" x 10" Redwood, Construction Grade/Rough Post.....	23.88	2.99
For Smooth "Clear", Add		
	3.78	
06 11 16 00-0143 LF 8" x 8" Redwood, Construction Grade/Rough Post.....	25.27	3.19
For Smooth "Clear", Add		
	4.03	
06 11 16 00-0144 Stair Stringers (06 11 16)		
06 11 16 00-0145 LF 2" x 10" Wood Stair Stringer.....	8.77	4.72
06 11 16 00-0146 LF 2" x 12" Wood Stair Stringer.....	10.36	5.54
06 11 16 00-0147 LF 2" x 10" Pressure Treated Wood Stair Stringer.....	8.80	4.72
06 11 16 00-0148 LF 2" x 12" Pressure Treated Wood Stair Stringer.....	10.51	5.54
06 11 16 00-0149 Blocking (06 11 16)		
06 11 16 00-0150 Blocking (06 11 16 00-0149)		
06 11 16 00-0151 Blocking To Wood (06 11 16 00-0150)		
06 11 16 00-0152 LF 2" x 4" Pressure Treated Wood Blocking To Wood.....	6.52	2.83

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0153	LF		2" x 6" Pressure Treated Wood Blocking To Wood.....	7.66	3.12
06 11 16 00-0154	LF		2" x 8" Pressure Treated Wood Blocking To Wood.....	8.70	3.42
06 11 16 00-0155	LF		4" x 4" Pressure Treated Wood Blocking To Wood.....	10.03	3.76
06 11 16 00-0156	LF		4" x 6" Pressure Treated Wood Blocking To Wood.....	10.83	4.14
06 11 16 00-0157	LF		2" x 4" Wood Blocking To Wood.....	6.18	2.83
06 11 16 00-0158	LF		2" x 6" Wood Blocking To Wood.....	7.10	3.12
06 11 16 00-0159	LF		2" x 8" Wood Blocking To Wood.....	8.10	3.42
06 11 16 00-0160	LF		4" x 4" Wood Blocking To Wood.....	8.60	3.76
06 11 16 00-0161	LF		4" x 6" Wood Blocking To Wood.....	9.63	4.14
06 11 16 00-0162			Blocking To Steel (06 11 16 00-0150)		
06 11 16 00-0163	LF		2" x 4" Pressure Treated Wood Blocking To Steel.....	7.45	3.26
06 11 16 00-0164	LF		2" x 6" Pressure Treated Wood Blocking To Steel.....	8.73	3.59
06 11 16 00-0165	LF		2" x 8" Pressure Treated Wood Blocking To Steel.....	9.91	3.95
06 11 16 00-0166	LF		2" x 4" Wood Blocking To Steel.....	7.08	3.26
06 11 16 00-0167	LF		2" x 6" Wood Blocking To Steel.....	8.12	3.59
06 11 16 00-0168	LF		2" x 8" Wood Blocking To Steel.....	9.24	3.95
06 11 16 00-0169			Blocking To Concrete (06 11 16 00-0150)		
06 11 16 00-0170	LF		2" x 4" Pressure Treated Wood Blocking To Concrete.....	7.45	3.26
06 11 16 00-0171	LF		2" x 6" Pressure Treated Wood Blocking To Concrete.....	8.73	3.59
06 11 16 00-0172	LF		2" x 8" Pressure Treated Wood Blocking To Concrete.....	9.91	3.95
06 11 16 00-0173	LF		2" x 4" Wood Blocking To Concrete.....	7.08	3.26
06 11 16 00-0174	LF		2" x 6" Wood Blocking To Concrete.....	8.12	3.59
06 11 16 00-0175	LF		2" x 8" Wood Blocking To Concrete.....	9.24	3.95
06 11 16 00-0176			Pressure Treated Lattice (06 11 16 00-0149)		
06 11 16 00-0177	SF		3/4" Thick Pressure Treated Wood Lattice.....	7.15	2.48
06 11 16 00-0178			Roofing Nailers (06 11 16)		
06 11 16 00-0179	LF		2" x 4" Pressure Treated Lumber, For Roofing Nailers.....	3.30	0.94
06 11 16 00-0180	LF		2" x 6" Pressure Treated Lumber, For Roofing Nailers.....	3.82	1.01
06 11 16 00-0181	LF		2" x 8" Pressure Treated Lumber, For Roofing Nailers.....	4.33	1.07
06 11 16 00-0182			Roofing Sleepers (06 11 16)		
06 11 16 00-0183	LF		2" x 4" Pressure Treated Lumber, For Roofing Sleepers.....	1.47	
06 11 16 00-0184	LF		4" x 4" Pressure Treated Lumber, For Roofing Sleepers.....	3.23	
06 11 16 00-0185	LF		4" x 6" Pressure Treated Lumber, For Roofing Sleepers.....	4.18	
06 11 16 00-0186	LF		6" x 6" Pressure Treated Lumber, For Roofing Sleepers.....	5.46	
06 11 16 00-0187			Canopy Framing, Bridging, And Furring (06 11 16)		
06 11 16 00-0188			Wood And Steel Bridging (06 11 16 00-0187)		
06 11 16 00-0189			Wood Bridging (06 11 16 00-0188)		
06 11 16 00-0190	EA		1 Pair Wood Bridging, 1" x 3" Cross Type..... Note: For joists spaced at 16" on center.	9.53	4.13
06 11 16 00-0191	EA		1 Pair Wood Bridging, 2" x 3" Cross Type..... Note: For joists spaced at 16" on center.	9.81	4.13
06 11 16 00-0192			Steel Bridging (06 11 16 00-0188)		
06 11 16 00-0193	EA		1 Pair Steel Bridging, Wood Joists At 16" On Center.....	10.77	4.13
06 11 16 00-0194	EA		1 Pair Steel Bridging, Wood Joists At 24" On Center.....	10.75	4.13
06 11 16 00-0195			Light Framing, Trim And Furring (06 11 16 00-0187)		
06 11 16 00-0196			Pine/Spruce/Fir Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0197	LF		1" x 1" Pine/Spruce/Fir Light Framing, Trim And Furring.....	2.09	0.96
06 11 16 00-0198	LF		1" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring.....	2.36	1.07
06 11 16 00-0199	LF		1" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring.....	2.72	1.17
06 11 16 00-0200	LF		1" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.03	1.29
06 11 16 00-0201	LF		1" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.36	1.41
06 11 16 00-0202	LF		1" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.72	1.55
06 11 16 00-0203	LF		2" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.04	1.29
06 11 16 00-0204	LF		2" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.41	1.41
06 11 16 00-0205	LF		2" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring.....	3.99	1.55
06 11 16 00-0206	LF		2" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring.....	4.66	1.71
06 11 16 00-0207	LF		2" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring.....	5.48	1.89
06 11 16 00-0208			Cedar Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0209	LF		1" x 1" Cedar Light Framing, Trim And Furring.....	2.12	0.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0210 LF 1" x 2" Cedar Light Framing, Trim And Furring.....	2.50	1.07
06 11 16 00-0211 LF 1" x 4" Cedar Light Framing, Trim And Furring.....	3.28	1.17
06 11 16 00-0212 LF 1" x 6" Cedar Light Framing, Trim And Furring.....	3.98	1.29
06 11 16 00-0213 LF 1" x 8" Cedar Light Framing, Trim And Furring.....	5.86	1.41
06 11 16 00-0214 LF 1" x 10" Cedar Light Framing, Trim And Furring.....	6.91	1.55
06 11 16 00-0215 LF 2" x 2" Cedar Light Framing, Trim And Furring.....	3.40	1.29
06 11 16 00-0216 LF 2" x 4" Cedar Light Framing, Trim And Furring.....	3.94	1.41
06 11 16 00-0217 Oak Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0218 LF 1" x 1" Oak Light Framing, Trim And Furring.....	2.13	0.96
06 11 16 00-0219 LF 1" x 2" Oak Light Framing, Trim And Furring.....	2.52	1.07
06 11 16 00-0220 LF 1" x 4" Oak Light Framing, Trim And Furring.....	3.14	1.17
06 11 16 00-0221 LF 1" x 6" Oak Light Framing, Trim And Furring.....	3.77	1.29
06 11 16 00-0222 LF 1" x 8" Oak Light Framing, Trim And Furring.....	4.43	1.41
06 11 16 00-0223 LF 1" x 10" Oak Light Framing, Trim And Furring.....	5.12	1.55
06 11 16 00-0224 LF 2" x 2" Oak Light Framing, Trim And Furring.....	3.37	1.29
06 11 16 00-0225 LF 2" x 4" Oak Light Framing, Trim And Furring.....	4.43	1.41
06 11 16 00-0226 Redwood Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0227 LF 1" x 1" Redwood Light Framing, Trim And Furring.....	2.07	0.96
06 11 16 00-0228 LF 1" x 2" Redwood Light Framing, Trim And Furring.....	2.41	1.07
06 11 16 00-0229 LF 1" x 4" Redwood Light Framing, Trim And Furring.....	2.95	1.17
06 11 16 00-0230 LF 1" x 6" Redwood Light Framing, Trim And Furring.....	3.53	1.29
06 11 16 00-0231 LF 1" x 8" Redwood Light Framing, Trim And Furring.....	4.18	1.41
06 11 16 00-0232 LF 1" x 10" Redwood Light Framing, Trim And Furring.....	4.89	1.55
06 11 16 00-0233 LF 2" x 2" Redwood Light Framing, Trim And Furring.....	3.55	1.29
06 11 16 00-0234 LF 2" x 4" Redwood Light Framing, Trim And Furring.....	4.20	1.41
06 11 16 00-0235 Poplar Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0236 LF 1" x 1" Poplar Light Framing, Trim And Furring.....	2.41	0.96
06 11 16 00-0237 LF 1" x 2" Poplar Light Framing, Trim And Furring.....	2.94	1.07
06 11 16 00-0238 LF 1" x 4" Poplar Light Framing, Trim And Furring.....	3.69	1.17
06 11 16 00-0239 LF 1" x 6" Poplar Light Framing, Trim And Furring.....	4.69	1.29
06 11 16 00-0240 LF 1" x 8" Poplar Light Framing, Trim And Furring.....	5.44	1.41
06 11 16 00-0241 LF 1" x 10" Poplar Light Framing, Trim And Furring.....	7.16	1.55
06 11 16 00-0242 LF 1" x 12" Poplar Light Framing, Trim And Furring.....	7.73	1.55
06 11 16 00-0243 LF 2" x 2" Poplar Light Framing, Trim And Furring.....	6.12	1.29
06 11 16 00-0244 LF 2" x 4" Poplar Light Framing, Trim And Furring.....	6.86	1.41
06 11 16 00-0245 LF 2" x 6" Poplar Light Framing, Trim And Furring.....	9.16	1.55
06 11 16 00-0246 Maple Light Framing, Trim And Furring (06 11 16 00-0195)		
06 11 16 00-0247 LF 1" x 4" Maple Light Framing, Trim And Furring.....	5.16	1.17
06 11 16 00-0248 LF 1" x 6" Maple Light Framing, Trim And Furring.....	6.95	1.29
06 11 16 00-0249 LF 1" x 8" Maple Light Framing, Trim And Furring.....	8.80	1.41
06 15 Wood Decking (06 10)		
06 15 13 Wood Floor Decking (06 15)		
06 15 13 00-0001 Wood Deck Systems (06 15 13)		
Note: Includes the deck, joists, girders, railing posts 8' on-center, pickets and railing. Excludes ground posts.		
06 15 13 00-0002 Pressure Treated Wood Deck System (06 15 13 00-0001)		
06 15 13 00-0003 2" x 8" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0004 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	37.75	7.09
06 15 13 00-0005 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	36.61	6.73
06 15 13 00-0006 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	39.21	7.27
06 15 13 00-0007 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	38.08	6.91
06 15 13 00-0008 2" x 10" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0009 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System.....	39.05	7.27
06 15 13 00-0010 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System.....	37.87	6.90
06 15 13 00-0011 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System.....	40.54	7.46
06 15 13 00-0012 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center.....	39.38	7.08
06 15 13 00-0013 2" x 10" Joists At 24" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0014 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	37.75	7.09
06 15 13 00-0015 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	36.61	6.73
06 15 13 00-0016 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	39.21	7.27
06 15 13 00-0017 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	38.08	6.91

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0018 Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0001)</small>		
06 15 13 00-0019 2" x 8" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0020 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	40.54	7.09
06 15 13 00-0021 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	39.53	7.05
06 15 13 00-0022 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	42.71	7.27
06 15 13 00-0023 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	41.38	6.91
06 15 13 00-0024 2" x 10" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0025 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System.....	43.44	7.27
06 15 13 00-0026 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System.....	42.38	6.90
06 15 13 00-0027 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	45.78	7.46
06 15 13 00-0028 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	44.44	7.08
06 15 13 00-0029 2" x 10" Joists At 24" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0030 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	41.67	7.09
06 15 13 00-0031 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System.....	40.66	6.73
06 15 13 00-0032 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	43.89	7.27
06 15 13 00-0033 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	43.46	6.91
06 15 13 00-0034 Wood Ramp Systems <small>(06 15 13)</small> Note: Includes the decking, joists, girders, railing posts at corners and along ramp, pickets and railing. Excludes ground posts.		
06 15 13 00-0035 Pressure Treated Wood Ramp System <small>(06 15 13 00-0034)</small>		
06 15 13 00-0036 2" x 6" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0037 SF 5/4" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	43.77	6.91
06 15 13 00-0038 SF 5/4" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	42.28	6.56
06 15 13 00-0039 SF 2" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	45.34	7.09
06 15 13 00-0040 SF 2" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	43.86	6.73
06 15 13 00-0041 2" x 8" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0042 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	45.17	7.09
06 15 13 00-0043 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	43.66	6.73
06 15 13 00-0044 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	46.82	7.27
06 15 13 00-0045 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	45.31	6.91
06 15 13 00-0046 2" x 10" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0047 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	46.64	7.26
06 15 13 00-0048 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	45.10	6.90
06 15 13 00-0049 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	48.34	7.46
06 15 13 00-0050 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	46.80	7.08
06 15 13 00-0051 Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		
06 15 13 00-0052 2" x 6" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0053 SF 5/4" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	46.39	6.91
06 15 13 00-0054 SF 5/4" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	45.02	6.56
06 15 13 00-0055 SF 2" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	48.63	7.09
06 15 13 00-0056 SF 2" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	46.96	6.73
06 15 13 00-0057 2" x 8" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0058 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	47.96	7.09
06 15 13 00-0059 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	46.58	6.73
06 15 13 00-0060 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	50.32	7.27
06 15 13 00-0061 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	48.61	6.91
06 15 13 00-0062 2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0063 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	51.04	7.26
06 15 13 00-0064 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	49.61	6.90
06 15 13 00-0065 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	53.59	7.46
06 15 13 00-0066 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	52.44	7.08
06 15 13 00-0067 Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0068	2" x 6" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0069	SF 5/4" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	44.70	6.91	
06 15 13 00-0070	SF 5/4" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	43.24	6.56	
06 15 13 00-0071	SF 2" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	46.35	7.09	
06 15 13 00-0072	SF 2" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System	44.91	6.73	
06 15 13 00-0073	2" x 8" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0074	SF 5/4" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	46.16	7.09	
06 15 13 00-0075	SF 5/4" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	44.69	6.73	
06 15 13 00-0076	SF 2" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	47.89	7.27	
06 15 13 00-0077	SF 2" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System	46.43	6.91	
06 15 13 00-0078	2" x 10" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0079	SF 5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	47.71	7.26	
06 15 13 00-0080	SF 5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	46.20	6.90	
06 15 13 00-0081	SF 2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	49.48	7.46	
06 15 13 00-0082	SF 2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System	47.99	7.08	
06 15 13 00-0083	Wood Stair Systems <small>(06 15 13)</small> Note: Includes the decking, joists, girders, railing posts at corners and along stairs, pickets and railing. Excludes ground posts.			
06 15 13 00-0084	Pressure Treated Wood Stair System <small>(06 15 13 00-0083)</small>			
06 15 13 00-0085	2" x 10" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>			
06 15 13 00-0086	RSR 3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	120.05	17.02	
06 15 13 00-0087	RSR 3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	117.40	16.16	
06 15 13 00-0088	RSR 3' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	123.82	17.45	
06 15 13 00-0089	RSR 3' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	120.52	16.57	
06 15 13 00-0090	RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	126.05	17.87	
06 15 13 00-0091	RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	123.28	16.97	
06 15 13 00-0092	RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	130.01	18.32	
06 15 13 00-0093	RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	126.56	17.41	
06 15 13 00-0094	RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	132.19	18.76	
06 15 13 00-0095	RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	129.27	17.81	
06 15 13 00-0096	RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	136.35	19.24	
06 15 13 00-0097	RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	132.70	18.28	
06 15 13 00-0098	RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	140.51	19.69	
06 15 13 00-0099	RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	137.53	18.71	
06 15 13 00-0100	RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	144.94	20.20	
06 15 13 00-0101	RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	141.19	19.19	
06 15 13 00-0102	2" x 12" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>			
06 15 13 00-0103	RSR 3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	122.58	17.44	
06 15 13 00-0104	RSR 3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	119.32	16.56	
06 15 13 00-0105	RSR 3' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	126.57	17.89	
06 15 13 00-0106	RSR 3' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	123.26	16.99	
06 15 13 00-0107	RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	128.71	18.31	
06 15 13 00-0108	RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	125.31	17.40	
06 15 13 00-0109	RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	132.90	18.78	
06 15 13 00-0110	RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	129.42	17.83	
06 15 13 00-0111	RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	134.99	19.22	
06 15 13 00-0112	RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	131.40	18.26	
06 15 13 00-0113	RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	139.38	19.71	
06 15 13 00-0114	RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	135.73	18.74	
06 15 13 00-0115	RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	143.46	20.19	
06 15 13 00-0116	RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	139.76	19.18	
06 15 13 00-0117	RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	148.15	20.70	
06 15 13 00-0118	RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	144.39	19.67	
06 15 13 00-0119	Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0083)</small>			
06 15 13 00-0120	2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>			
06 15 13 00-0121	RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	135.57	17.02	
06 15 13 00-0122	RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	132.78	16.16	
06 15 13 00-0123	RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	140.31	17.45	
06 15 13 00-0124	RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	137.50	16.57	
06 15 13 00-0125	RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	142.35	17.87	
06 15 13 00-0126	RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	139.43	16.97	
06 15 13 00-0127	RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	147.33	18.32	
06 15 13 00-0128	RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	144.38	17.41	
06 15 13 00-0129	RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	149.22	18.76	
06 15 13 00-0130	RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	146.14	17.81	
06 15 13 00-0131	RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	154.44	19.24	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0132 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	151.33	18.28
06 15 13 00-0133 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	159.24	19.69
06 15 13 00-0134 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	156.09	18.71
06 15 13 00-0135 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	164.84	20.20
06 15 13 00-0136 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	161.68	19.19
06 15 13 00-0137 2" x 12" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>		
06 15 13 00-0138 RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	133.52	17.44
06 15 13 00-0139 RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	130.66	16.56
06 15 13 00-0140 RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	137.96	17.89
06 15 13 00-0141 RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	135.19	16.99
06 15 13 00-0142 RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	140.21	18.31
06 15 13 00-0143 RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	137.21	17.40
06 15 13 00-0144 RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	144.86	18.78
06 15 13 00-0145 RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	141.94	17.83
06 15 13 00-0146 RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	147.00	19.22
06 15 13 00-0147 RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	143.83	18.26
06 15 13 00-0148 RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	151.88	19.71
06 15 13 00-0149 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	148.82	18.74
06 15 13 00-0150 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	156.67	20.19
06 15 13 00-0151 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	153.44	19.18
06 15 13 00-0152 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	161.90	20.70
06 15 13 00-0153 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	158.79	19.67
06 15 13 00-0154 Wood Deck And Ramp Systems Repairs <small>(06 15 13)</small> Note: Includes removal of material and screws. Excludes anchors and bolts.		
06 15 13 00-0155 Deck Joist Or Girt <small>(06 15 13 00-0154)</small> See CSI section 06 11 16 00-0012 for treated wood joist replacement.		
06 15 13 00-0156 Deck Boards <small>(06 15 13 00-0154)</small>		
06 15 13 00-0157 LF 5/4" x 4" Round Edge Pressure Treated Deck Boards.....	2.05	0.90
06 15 13 00-0158 LF 5/4" x 6" Round Edge Pressure Treated Deck Boards.....	2.28	1.08
06 15 13 00-0159 LF 2" x 4" Round Edge Pressure Treated Deck Boards.....	2.20	1.08
06 15 13 00-0160 LF 2" x 6" Round Edge Pressure Treated Deck Boards.....	2.84	1.24
06 15 13 00-0161 LF 2" x 8" Round Edge Pressure Treated Deck Boards.....	3.59	1.48
06 15 13 00-0162 LF 2" x 10" Round Edge Pressure Treated Deck Boards.....	4.39	1.82
06 15 13 00-0163 LF 2" x 12" Round Edge Pressure Treated Deck Boards.....	5.39	2.14
06 15 13 00-0164 LF 2" x 4" Round Edge Cedar Deck Boards	2.72	1.08
06 15 13 00-0165 LF 2" x 6" Round Edge Cedar Deck Boards	3.51	1.24
06 15 13 00-0166 LF 2" x 4" Round Edge Redwood Deck Boards	2.98	1.08
06 15 13 00-0167 LF 2" x 6" Round Edge Redwood Deck Boards	3.90	1.24
06 15 13 00-0168 Deck Posts <small>(06 15 13 00-0154)</small> See CSI section 06 11 16 00-0103 for treated wood post replacement.		
06 15 13 00-0169 Deck Railing And Pickets <small>(06 15 13 00-0154)</small>		
06 15 13 00-0170 LF 2" x 4" Pressure Treated Deck Railing.....	2.20	1.08
06 15 13 00-0171 LF 2" x 2" Pressure Treated Deck Railing Picket	1.69	0.82
06 15 13 00-0172 LF 2" x 4" Cedar Deck Railing.....	2.72	1.08
06 15 13 00-0173 LF 2" x 2" Cedar Deck Railing Picket.....	2.05	0.82
06 15 13 00-0174 LF 2" x 4" Redwood Deck Railing	2.98	1.08
06 15 13 00-0175 LF 2" x 2" Redwood Deck Railing Picket.....	2.25	0.82
06 16 Sheathing <small>(06 16)</small>		
06 16 23 Subflooring <small>(06 16)</small>		
06 16 23 00-0001 Board Type Subflooring <small>(06 16 23)</small>		
06 16 23 00-0002 SF 1" x 8" Regular Surface Board Type Subfloor.....	3.11	0.94
Note: 4 Sides Laid In A Regular Pattern.		
For Water Resistant Coating Or Treatment, Add	0.06	
For Foil Backing, Add	0.10	
For Tongue And Groove, Add	0.07	
06 16 23 00-0003 SF 1" x 8" Diagonal Surface Board Type Subfloor	3.50	1.18
Note: 4 Sides Laid In A Diagonal Pattern.		
For Water Resistant Coating Or Treatment, Add	0.06	
For Foil Backing, Add	0.10	
For Tongue And Groove, Add	0.07	
06 16 23 00-0004 SF 1" x 10" Regular Surface Board Type Subfloor.....	2.96	0.82
Note: 4 sides laid in a regular pattern.		
For Water Resistant Coating Or Treatment, Add	0.06	
For Foil Backing, Add	0.10	
For Tongue And Groove, Add	0.07	
06 16 23 00-0005 SF 1" x 10" Diagonal Surface Board Type Subfloor	3.24	0.94
Note: 4 sides laid in a diagonal pattern.		
For Water Resistant Coating Or Treatment, Add	0.06	
For Foil Backing, Add	0.10	
For Tongue And Groove, Add	0.07	



Wood, Plastics, and Composites		06
Rough Carpentry		06 10
Sheathing		06 16

06

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 Wood Board Sheathing (06 16)		
06 16 33 00-0001 Plywood (06 16 33)		
06 16 33 00-0002 Roof Decking (06 16 33 00-0001)		
06 16 33 00-0003 SF 3/8" Thick CDX Plywood Roof Decking	2.00	0.59
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.28	
For Exterior CC Grade Plywood, Add	0.09	
For Application To Metal Studs, Joists, Or Rafters, Add	0.28	
For ACQ Preservative Treatment, Add	0.29	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.09	
For Fire Retardant Treatment, Add	0.48	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.14	
06 16 33 00-0004 SF 1/2" Thick CDX Plywood Roof Decking	2.25	0.71
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.30	
For Exterior CC Grade Plywood, Add	0.11	
For Application To Metal Studs, Joists, Or Rafters, Add	0.30	
For ACQ Preservative Treatment, Add	0.36	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.27	
For Fire Retardant Treatment, Add	0.58	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.16	
06 16 33 00-0005 SF 5/8" Thick CDX Plywood Roof Decking	2.98	0.71
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.33	
For Exterior CC Grade Plywood, Add	0.20	
For Application To Metal Studs, Joists, Or Rafters, Add	0.33	
For ACQ Preservative Treatment, Add	0.65	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.45	
For Fire Retardant Treatment, Add	1.07	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.12	
For >6,400 To 12,800, Deduct	-0.19	
For >12,800, Deduct	-0.24	
For Tongue And Groove, Add	0.09	
06 16 33 00-0006 SF 3/4" Thick CDX Plywood Roof Decking	3.32	0.82
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.35	
For Exterior CC Grade Plywood, Add	0.23	
For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
For ACQ Preservative Treatment, Add	0.75	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
For Fire Retardant Treatment, Add	1.23	
For >1,696 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.14	
For >6,400 To 12,800, Deduct	-0.22	
For >12,800, Deduct	-0.28	
For Tongue And Groove, Add	0.11	
06 16 33 00-0007 SF 1" Thick CDX Plywood Roof Decking	4.03	0.94
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.38	
For Exterior CC Grade Plywood, Add	0.32	
For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
For ACQ Preservative Treatment, Add	1.01	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.88	
For Fire Retardant Treatment, Add	1.67	
For >1,696 To 3,200, Deduct	-0.13	
For >3,200 To 6,400, Deduct	-0.19	
For >6,400 To 12,800, Deduct	-0.28	
For >12,800, Deduct	-0.35	
For Tongue And Groove, Add	0.15	
06 16 33 00-0008 Wall Sheathing (06 16 33 00-0001)		
06 16 33 00-0009 SF 1/4" Interior BC Plywood Wall Sheathing	2.36	0.82
Note: Applied to wall studs.		
For Shear Wall Construction, Add	0.35	
For Exterior CC Grade Plywood, Add	0.09	
For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
For Ceiling Installation, Add	0.18	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
For Fire Retardant Treatment, Add	0.47	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.16	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
06 16 33 00-0010	SF 5/16" Interior BC Plywood Wall Sheathing.....	2.39	0.82
	Note: Applied to wall studs.		
	For Shear Wall Construction, Add	0.35	
	For Exterior CC Grade Plywood, Add	0.09	
	For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
	For Ceiling Installation, Add	0.18	
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
	For Fire Retardant Treatment, Add	0.50	
	For >1,696 To 3,200, Deduct	-0.04	
	For >3,200 To 6,400, Deduct	-0.06	
	For >6,400 To 12,800, Deduct	-0.11	
	For >12,800, Deduct	-0.16	
06 16 33 00-0011	SF 3/8" Interior BC Plywood Wall Sheathing.....	2.45	0.94
	Note: Applied to wall studs.		
	For Shear Wall Construction, Add	0.35	
	For Exterior CC Grade Plywood, Add	0.10	
	For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
	For Ceiling Installation, Add	0.18	
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
	For Fire Retardant Treatment, Add	0.55	
	For >1,696 To 3,200, Deduct	-0.04	
	For >3,200 To 6,400, Deduct	-0.06	
	For >6,400 To 12,800, Deduct	-0.12	
	For >12,800, Deduct	-0.17	
06 16 33 00-0012	SF 1/2" Interior BC Plywood Wall Sheathing.....	2.75	0.94
	Note: Applied to wall studs.		
	For Shear Wall Construction, Add	0.38	
	For Exterior CC Grade Plywood, Add	0.13	
	For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
	For Ceiling Installation, Add	0.19	
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.82	
	For Fire Retardant Treatment, Add	0.69	
	For >1,696 To 3,200, Deduct	-0.05	
	For >3,200 To 6,400, Deduct	-0.08	
	For >6,400 To 12,800, Deduct	-0.14	
	For >12,800, Deduct	-0.20	
06 16 33 00-0013	SF 5/8" Interior BC Plywood Wall Sheathing.....	3.56	1.07
	Note: Applied to wall studs.		
	For Shear Wall Construction, Add	0.40	
	For Exterior CC Grade Plywood, Add	0.23	
	For Application To Metal Studs, Joists, Or Rafters, Add	0.40	
	For Ceiling Installation, Add	0.20	
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.03	
	For Fire Retardant Treatment, Add	1.22	
	For >1,696 To 3,200, Deduct	-0.09	
	For >3,200 To 6,400, Deduct	-0.14	
	For >6,400 To 12,800, Deduct	-0.22	
	For >12,800, Deduct	-0.29	
06 16 33 00-0014	SF 3/4" Interior BC Plywood Wall Sheathing.....	3.92	1.18
	Note: Applied to wall studs.		
	For Shear Wall Construction, Add	0.43	
	For Exterior CC Grade Plywood, Add	0.26	
	For Application To Metal Studs, Joists, Or Rafters, Add	0.43	
	For Ceiling Installation, Add	0.22	
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.26	
	For Fire Retardant Treatment, Add	1.38	
	For >1,696 To 3,200, Deduct	-0.11	
	For >3,200 To 6,400, Deduct	-0.16	
	For >6,400 To 12,800, Deduct	-0.25	
	For >12,800, Deduct	-0.32	
06 16 33 00-0015	Floor Decking (06 16 33 00-0001)		
	Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0016	SF 5/16" CD Grade Plywood Floor Decking.....	2.00	0.71
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.00	
	For Fire Retardant Treatment, Add	0.53	
	For >1,696 To 3,200, Deduct	-0.04	
	For >3,200 To 6,400, Deduct	-0.06	
	For >6,400 To 12,800, Deduct	-0.11	
	For >12,800, Deduct	-0.15	
	For ACQ Preservative Treatment, Add	0.32	
	For Fir Plywood, Add	0.12	
	For BC Grade Plywood, Add	0.10	
	For Exterior Glue, Add	0.06	
	For Marine Grade, Add	0.52	



Wood, Plastics, and Composites		06
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0017 SF 3/8" CD Grade Plywood Floor Decking.....	1.90	0.71
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.10	
For Fire Retardant Treatment, Add	0.40	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.13	
For ACQ Preservative Treatment, Add	0.24	
For Fir Plywood, Add	0.09	
For BC Grade Plywood, Add	0.07	
For Exterior Glue, Add	0.05	
For Marine Grade, Add	0.39	
06 16 33 00-0018 SF 1/2" CD Grade Plywood Floor Decking.....	2.13	0.71
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.21	
For Fire Retardant Treatment, Add	0.52	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.15	
For ACQ Preservative Treatment, Add	0.32	
For Fir Plywood, Add	0.12	
For BC Grade Plywood, Add	0.10	
For Exterior Glue, Add	0.06	
For Marine Grade, Add	0.52	
06 16 33 00-0019 SF 5/8" CD Grade Plywood Floor Decking.....	2.77	0.71
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.40	
For Fire Retardant Treatment, Add	0.92	
For >1,696 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.11	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.22	
For ACQ Preservative Treatment, Add	0.56	
For Fir Plywood, Add	0.22	
For BC Grade Plywood, Add	0.17	
For Exterior Glue, Add	0.11	
For Marine Grade, Add	0.92	
06 16 33 00-0020 SF 3/4" CD Grade Plywood Floor Decking.....	3.19	0.71
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.55	
For Fire Retardant Treatment, Add	1.18	
For >1,696 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.13	
For >6,400 To 12,800, Deduct	-0.21	
For >12,800, Deduct	-0.26	
For ACQ Preservative Treatment, Add	0.72	
For Fir Plywood, Add	0.28	
For BC Grade Plywood, Add	0.22	
For Exterior Glue, Add	0.14	
For Marine Grade, Add	1.17	
06 16 33 00-0021 SF 1-1/8" CD Grade Plywood Floor Decking.....	4.86	1.07
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.05	
For Fire Retardant Treatment, Add	2.24	
For >1,696 To 3,200, Deduct	-0.17	
For >3,200 To 6,400, Deduct	-0.25	
For >6,400 To 12,800, Deduct	-0.36	
For >12,800, Deduct	-0.44	
For ACQ Preservative Treatment, Add	1.36	
For Fir Plywood, Add	0.52	
For BC Grade Plywood, Add	0.42	
For Exterior Glue, Add	0.26	
For Marine Grade, Add	2.22	
06 16 33 00-0022 SF 1/2" AC Fir Plywood Floor Decking.....	2.53	0.71
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.21	
For Fire Retardant Treatment, Add	0.84	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.20	
For ACQ Preservative Treatment, Add	0.51	
For Exterior Glue, Add	0.10	
For Marine Grade, Add	0.83	
For Tongue And Groove, Add	0.07	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0023	SF		5/8" AC Fir Plywood Floor Decking.....	3.42	0.71
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.40	
			For Fire Retardant Treatment, Add	1.44	
			For >1,696 To 3,200, Deduct	-0.11	
			For >3,200 To 6,400, Deduct	-0.16	
			For >6,400 To 12,800, Deduct	-0.24	
			For >12,800, Deduct	-0.30	
			For ACQ Preservative Treatment, Add	0.87	
			For Exterior Glue, Add	0.17	
			For Marine Grade, Add	1.43	
			For Tongue And Groove, Add	0.13	
06 16 33 00-0024	SF		3/4" AC Fir Plywood Floor Decking.....	3.68	0.71
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.57	
			For Fire Retardant Treatment, Add	1.56	
			For >1,696 To 3,200, Deduct	-0.12	
			For >3,200 To 6,400, Deduct	-0.18	
			For >6,400 To 12,800, Deduct	-0.26	
			For >12,800, Deduct	-0.32	
			For ACQ Preservative Treatment, Add	0.95	
			For Exterior Glue, Add	0.18	
			For Marine Grade, Add	1.54	
			For Tongue And Groove, Add	0.14	
06 16 33 00-0025			Underlayment Grade (06 16 33 00-0001)		
			Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0026	SF		1/4" Thick Plywood Underlayment BC Grade.....	2.15	0.71
			For Fire Retardant Treatment, Add	0.62	
			For >1,696 To 3,200, Deduct	-0.05	
			For >3,200 To 6,400, Deduct	-0.07	
			For >6,400 To 12,800, Deduct	-0.11	
			For >12,800, Deduct	-0.16	
06 16 33 00-0027	SF		3/8" Thick Plywood Underlayment BC Grade.....	2.29	0.71
			For Fire Retardant Treatment, Add	0.68	
			For >1,696 To 3,200, Deduct	-0.05	
			For >3,200 To 6,400, Deduct	-0.08	
			For >6,400 To 12,800, Deduct	-0.11	
			For >12,800, Deduct	-0.17	
06 16 33 00-0028	SF		1/2" Thick Plywood Underlayment BC Grade.....	2.40	0.82
			For Fire Retardant Treatment, Add	0.74	
			For >1,696 To 3,200, Deduct	-0.06	
			For >3,200 To 6,400, Deduct	-0.08	
			For >6,400 To 12,800, Deduct	-0.12	
			For >12,800, Deduct	-0.19	
06 16 33 00-0029	SF		5/8" Thick Plywood Underlayment BC Grade.....	2.74	0.82
			For Fire Retardant Treatment, Add	0.88	
			For >1,696 To 3,200, Deduct	-0.07	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.14	
			For >12,800, Deduct	-0.21	
			For Tongue And Groove, Add	0.08	
06 16 33 00-0030	SF		3/4" Thick Plywood Underlayment BC Grade.....	2.98	0.82
			For Fire Retardant Treatment, Add	1.07	
			For >1,696 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.12	
			For >6,400 To 12,800, Deduct	-0.16	
			For >12,800, Deduct	-0.24	
			For Tongue And Groove, Add	0.09	
06 16 33 00-0031	SF		1-1/8" Thick Plywood Underlayment BC Grade.....	3.88	0.94
			For Fire Retardant Treatment, Add	1.62	
			For >1,696 To 3,200, Deduct	-0.12	
			For >3,200 To 6,400, Deduct	-0.18	
			For >6,400 To 12,800, Deduct	-0.23	
			For >12,800, Deduct	-0.34	
			For Tongue And Groove, Add	0.14	
06 16 33 00-0032	SF		3/8" Thick CDX Plywood Underlayment Grade.....	2.49	0.71
			For Fire Retardant Treatment, Add	0.84	
			For >1,696 To 3,200, Deduct	-0.06	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.13	
			For >12,800, Deduct	-0.20	
06 16 33 00-0033	SF		5/8" Thick CDX Plywood Underlayment Grade.....	3.20	0.82
			For Fire Retardant Treatment, Add	1.26	
			For >1,696 To 3,200, Deduct	-0.10	
			For >3,200 To 6,400, Deduct	-0.14	
			For >6,400 To 12,800, Deduct	-0.18	
			For >12,800, Deduct	-0.27	
06 16 33 00-0034			Oriented Strand Board (06 16 33)		
06 16 33 00-0035			On Roof (06 16 33 00-0034)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0036 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.04	0.71
For >1,408 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.15	
For Fire Retardant Treatment, Add	0.51	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.09	
06 16 33 00-0037 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.27	0.71
For >1,408 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.17	
For Fire Retardant Treatment, Add	0.60	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.27	
06 16 33 00-0038 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.73	0.82
For >1,408 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.21	
For Fire Retardant Treatment, Add	0.87	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.45	
06 16 33 00-0039 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Roof.....	3.22	0.82
For >1,408 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.13	
For >6,400 To 12,800, Deduct	-0.20	
For >12,800, Deduct	-0.26	
For Fire Retardant Treatment, Add	1.15	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.64	
06 16 33 00-0040 On Walls <small>(06 16 33 00-0034)</small>		
06 16 33 00-0041 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Walls	2.41	0.82
For >1,408 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.17	
For Fire Retardant Treatment, Add	0.51	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.64	
06 16 33 00-0042 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Walls	2.64	0.94
For >1,408 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.19	
For Fire Retardant Treatment, Add	0.60	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.82	
06 16 33 00-0043 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Walls	3.12	1.07
For >1,408 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.23	
For Fire Retardant Treatment, Add	0.87	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	3.03	
06 16 33 00-0044 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Walls	3.63	1.07
For >1,408 To 3,200, Deduct	-0.09	
For >3,200 To 6,400, Deduct	-0.13	
For >6,400 To 12,800, Deduct	-0.21	
For >12,800, Deduct	-0.28	
For Fire Retardant Treatment, Add	1.15	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	3.26	
06 16 33 00-0045 On Floors <small>(06 16 33 00-0034)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0046 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Floors	2.07	0.71
For >1,408 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.15	
For Fire Retardant Treatment, Add	0.51	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.13	
06 16 33 00-0047 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Floors	2.46	0.82
For >1,408 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
For Fire Retardant Treatment, Add	0.60	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.55	
06 16 33 00-0048 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Floors	2.95	0.94
For >1,408 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.22	
For Fire Retardant Treatment, Add	0.87	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.78	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0049	SF		3/4" Thick Structural Oriented Strand Board (OSB) On Floors	3.48	1.07
			<i>For >1,408 To 3,200, Deduct</i>	-0.09	
			<i>For >3,200 To 6,400, Deduct</i>	-0.13	
			<i>For >6,400 To 12,800, Deduct</i>	-0.21	
			<i>For >12,800, Deduct</i>	-0.28	
			<i>For Fire Retardant Treatment, Add</i>	1.15	
			<i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.03	
06 16 33 00-0050			Particle Board <small>(06 16 33)</small>		
06 16 33 00-0051			Particle Board Floor Decking <small>(06 16 33 00-0050)</small>		
			Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0052	SF		3/8" Particle Board Floor Decking	1.87	0.59
			Note: Applied to plywood subfloor.		
			<i>For Fire Retardant Treatment Add</i>	0.38	
			<i>For >1,536 To 3,200, Deduct</i>	-0.03	
			<i>For >3,200 To 6,400, Deduct</i>	-0.04	
			<i>For >6,400 To 12,800, Deduct</i>	-0.09	
			<i>For >12,800, Deduct</i>	-0.13	
			<i>For Tongue And Groove, Add</i>	0.03	
06 16 33 00-0053	SF		1/2" Particle Board Floor Decking	2.12	0.59
			Note: Applied to plywood subfloor.		
			<i>For Fire Retardant Treatment Add</i>	0.51	
			<i>For >1,536 To 3,200, Deduct</i>	-0.04	
			<i>For >3,200 To 6,400, Deduct</i>	-0.06	
			<i>For >6,400 To 12,800, Deduct</i>	-0.11	
			<i>For >12,800, Deduct</i>	-0.15	
			<i>For Tongue And Groove, Add</i>	0.05	
06 16 33 00-0054	SF		5/8" Particle Board Floor Decking	2.37	0.71
			Note: Applied to plywood subfloor.		
			<i>For Fire Retardant Treatment Add</i>	0.65	
			<i>For >1,536 To 3,200, Deduct</i>	-0.05	
			<i>For >3,200 To 6,400, Deduct</i>	-0.07	
			<i>For >6,400 To 12,800, Deduct</i>	-0.13	
			<i>For >12,800, Deduct</i>	-0.18	
			<i>For Tongue And Groove, Add</i>	0.06	
06 16 33 00-0055	SF		3/4" Particle Board Floor Decking	2.60	0.71
			Note: Applied to plywood subfloor.		
			<i>For Fire Retardant Treatment Add</i>	0.76	
			<i>For >1,536 To 3,200, Deduct</i>	-0.06	
			<i>For >3,200 To 6,400, Deduct</i>	-0.09	
			<i>For >6,400 To 12,800, Deduct</i>	-0.15	
			<i>For >12,800, Deduct</i>	-0.20	
			<i>For Tongue And Groove, Add</i>	0.07	
06 16 43			Gypsum Sheathing <small>(06 16)</small>		
06 16 43 00-0001			Exterior Gypsum Sheathing <small>(06 16 43)</small>		
			Note: Includes moisture resistant core and fiberglass mats on both sides and long edges.		
06 16 43 00-0002	SF		1/2" Exterior Gypsum Sheathing (GP Dens-Glass Gold)	2.79	0.94
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.38	
			<i>For Ceiling Installation, Add</i>	0.19	
			<i>For >1,696 To 3,200, Deduct</i>	-0.05	
			<i>For >3,200 To 6,400, Deduct</i>	-0.08	
			<i>For >6,400 To 12,800, Deduct</i>	-0.15	
			<i>For >12,800, Deduct</i>	-0.20	
			<i>For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add</i>	2.82	
06 16 43 00-0003	SF		5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold)	3.01	1.18
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.40	
			<i>For Ceiling Installation, Add</i>	0.20	
			<i>For >1,696 To 3,200, Deduct</i>	-0.06	
			<i>For >3,200 To 6,400, Deduct</i>	-0.09	
			<i>For >6,400 To 12,800, Deduct</i>	-0.16	
			<i>For >12,800, Deduct</i>	-0.22	
			<i>For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add</i>	3.03	

END OF SECTION 06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 01 Operation and Maintenance of Thermal and Moisture Protection ⁽⁰⁷⁾

07 01 50 Maintenance of Membrane Roofing ^(07 01)

07 01 50 19 Preparation for Re-Roofing ^(07 01 50)

07 01 50 19-0001 Preparation For Re-Roofing ^(07 01 50 19)

07 01 50 19-0002	SQ	Removal Of Pea Gravel Ballast From Roof, Vacuum And Disposal	29.28
07 01 50 19-0003	SQ	Removal Of Gravel Ballast From Roof, Vacuum And Disposal.....	51.68

07 01 50 81 Roof Replacement ^(07 01 50)

07 01 50 81-0001 Roof Repair ^(07 01 50 81)

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

07 01 50 81-0002	SF	Up To 10 SF Roof Repair, Built-Up Roofing	22.26
07 01 50 81-0003	SF	>10 To 25 SF Roof Repair, Built-Up Roofing	19.96
07 01 50 81-0004	SF	>25 To 50 SF Roof Repair, Built-Up Roofing	18.17
07 01 50 81-0005	SF	>50 To 100 SF Roof Repair, Built-Up Roofing	16.90
07 01 50 81-0006	SF	Up To 10 SF Roof Repair, Membrane Roofing	25.19
07 01 50 81-0007	SF	>10 To 25 SF Roof Repair, Membrane Roofing	22.88
07 01 50 81-0008	SF	>25 To 50 SF Roof Repair, Membrane Roofing	21.10
07 01 50 81-0009	SF	>50 To 100 SF Roof Repair, Membrane Roofing	19.83
07 01 50 81-0010	SF	Up To 10 SF Roof Repair, Shingle Roofing	19.34
07 01 50 81-0011	SF	>10 To 25 SF Roof Repair, Shingle Roofing	17.33
07 01 50 81-0012	SF	>25 To 50 SF Roof Repair, Shingle Roofing	15.84
07 01 50 81-0013	SF	>50 To 100 SF Roof Repair, Shingle Roofing.....	14.86
07 01 50 81-0014	LF	Heat Weld Roofing Seams For Repair.....	6.90

07 01 50 81-0015 Emergency Roof Patch ^(07 01 50 81)

Note: 4 Hour response time.

07 01 50 81-0016	EA	Granule Emergency Roof Patch Cover 16 SF	90.82
07 01 50 81-0017	EA	Mobilize For Emergency Roof Patching.....	429.39

07 01 50 81-0018 Adhesives ^(07 01 50 81)

Note: For repair of seams.

07 01 50 81-0019 Mastic Sealer ^(07 01 50 81-0018)

07 01 50 81-0020 Applied At Joints Only ^(07 01 50 81-0019)

07 01 50 81-0021	LF	Mastic Sealer, 1/4" Bead At Joint.....	4.25
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1.83

07 01 50 91 Roofing Restoration ^(07 01 50)

07 01 50 91-0001 Pressure Wash Membrane Roofing ^(07 01 50 91)

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing	0.14
		<i>For Up To 100, Add</i>	<i>0.11</i>
		<i>For >100 To 250, Add</i>	<i>0.05</i>
		<i>For >250 To 500, Add</i>	<i>0.02</i>
		<i>For >5,000 To 10,000, Deduct</i>	<i>-0.01</i>
		<i>For >10,000 To 15,000, Deduct</i>	<i>-0.01</i>
		<i>For >15,000 To 30,000, Deduct</i>	<i>-0.02</i>
		<i>For >30,000, Deduct</i>	<i>-0.03</i>

07 05 Common Work Results for Thermal and Moisture Protection ⁽⁰⁷⁾

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05)

07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05 13)

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work.....	1,292.30
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	966.90
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	646.15
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	322.30

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
the absence of hydrostatic pressure.		
07 11 Dampproofing (07 10)		
07 11 13 Bituminous Dampproofing (07 11)		
07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray (07 11 13)		
07 11 13 00-0002 CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	158.36	
07 11 13 00-0003 CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	244.38	
07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On (07 11 13)		
07 11 13 00-0005 CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	271.71	
07 11 13 00-0006 CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	420.66	
07 11 13 00-0007 Asphaltic Paint Dampproofing (07 11 13)		
07 11 13 00-0008 CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	127.51	
07 11 13 00-0009 CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	235.66	
07 11 19 Sheet Dampproofing (07 11)		
07 11 19 00-0001 Neoprene (07 11 19)		
07 11 19 00-0002 SF 1/16" Patch Neoprene Roof (5 To 20 SF)	34.26	
07 13 Sheet Waterproofing (07 10)		
07 13 13 Bituminous Sheet Waterproofing (07 13)		
07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped (07 13)		
07 13 13 00-0002 CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	300.45	104.94
<i>For 30 LB Felt, Add</i>	67.92	
<i>For Application To Horizontal Surfaces, Deduct</i>	-31.48	
07 13 13 00-0003 CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	378.63	118.06
<i>For 30 LB Felt, Add</i>	106.88	
<i>For Application To Horizontal Surfaces, Deduct</i>	-35.42	
07 13 13 00-0004 CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	456.79	131.18
<i>For 30 LB Felt, Add</i>	145.83	
<i>For Application To Horizontal Surfaces, Deduct</i>	-39.35	
07 13 13 00-0005 CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	534.97	144.30
<i>For 30 LB Felt, Add</i>	184.79	
<i>For Application To Horizontal Surfaces, Deduct</i>	-43.29	
07 13 13 00-0006 CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	613.16	157.41
<i>For 30 LB Felt, Add</i>	223.75	
<i>For Application To Horizontal Surfaces, Deduct</i>	-47.22	
07 13 13 00-0007 Asphalt Coated Protective Board (07 13 13)		
07 13 13 00-0008 CSF 1/8" Asphalt Coated Protective Board	257.43	103.54
<i>For Application To Horizontal Surfaces, Deduct</i>	-34.53	
07 13 13 00-0009 CSF 1/4" Asphalt Coated Protective Board	341.86	107.52
<i>For Application To Horizontal Surfaces, Deduct</i>	-35.84	
07 13 13 00-0010 CSF 3/8" Asphalt Coated Protective Board	443.60	112.04
<i>For Application To Horizontal Surfaces, Deduct</i>	-37.33	
07 13 13 00-0011 CSF 1/2" Asphalt Coated Protective Board	495.48	116.56
<i>For Application To Horizontal Surfaces, Deduct</i>	-38.86	
07 13 53 Elastomeric Sheet Waterproofing (07 13)		
07 13 53 00-0001 Rubberized Membrane Sheet (07 13 53)		
07 13 53 00-0002 SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	7.16	1.07
<i>For Floor Surfaces, Deduct</i>	-1.06	
07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) (07 13 53)		
07 13 53 00-0004 CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	490.08	150.53
<i>For Application To Horizontal Surfaces, Deduct</i>	-45.15	
07 13 53 00-0005 CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	577.35	150.53
<i>For Application To Horizontal Surfaces, Deduct</i>	-45.15	
07 13 53 00-0006 Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing	97.20	37.63
<i>For Joint Taping, Add</i>	13.53	
<i>For Each Additional Ply, Add</i>	71.81	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	116.13 14.48 85.06 -5.66	37.63
07 13 53 00-0009 Butyl With Nylon (07 13 53)		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	108.02 14.07 79.39 -5.66	37.63
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	120.19 14.68 87.90 -5.66	37.63
07 13 53 00-0012 Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	170.28 17.19 122.97 -5.66	37.63
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	250.85 21.22 179.37 -5.66	37.63
07 13 53 00-0015 Neoprene With Nylon (07 13 53)		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	178.69 17.61 128.85 -5.66	37.63
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	264.28 21.89 188.77 -5.66	37.63
07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	37.47 9.14 29.39 -4.74	14.29
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	38.31 9.19 29.98 -4.74	14.29
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	59.82 10.26 45.04 -4.74	14.29
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite..... <i>Note: Includes seam tape, liquid mastic, anchors and termination bar.</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	226.56 162.11 -5.27	14.29
07 13 53 00-0023 Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	72.08 10.87 53.62 -4.74	15.81
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	102.73 12.68 75.19 -4.92	16.39
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	144.35 15.03 104.44 -5.09	16.97
07 13 53 00-0027 Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028 CSF 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	41.24	14.63
07 14 Fluid-Applied Waterproofing (07 10)		
07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)		
07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)		

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 14 Fluid-Applied Waterproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.16	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.20	
<i>For Reinforcing Fabric, Add</i>	0.46	
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.52	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.21	
<i>For Reinforcing Fabric, Add</i>	0.46	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)		
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002 SF 60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.74	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.45	
07 14 16 00-0003 SF 90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.24	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.48	
07 14 16 00-0004 SF 120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.79	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.51	
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)		
07 14 16 00-0006 SF 15 Mil Finish Coat, Chlorosulfonated Polyethylene (CSM) Polymer, 1 Part Solution.....	2.52	
07 14 16 00-0007 Copolymer Compound (07 14 16)		
07 14 16 00-0008 SF Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	4.04	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Neoprene.....	470.92	
<i>For Application To Horizontal Surfaces, Deduct</i>	-54.83	
07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Neoprene.....	945.92	
<i>For Application To Horizontal Surfaces, Deduct</i>	-107.57	
07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Neoprene.....	1,532.70	
<i>For Application To Horizontal Surfaces, Deduct</i>	-161.28	
07 16 Cementitious and Reactive Waterproofing (07 10)		
07 16 13 Polymer Modified Cement Waterproofing (07 16)		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	4.43	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing. 2 Coats (Xypex Concentrate).....	5.40	
07 16 19 Metal Oxide Waterproofing (07 16)		
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. See CSI section 03 54 16 00-0001 for self leveling underlayment for concrete floors.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	442.29	
<i>For Application To Horizontal Surfaces, Deduct</i>	-56.30	
07 17 Bentonite Waterproofing (07 10)		
07 17 13 Bentonite Panel Waterproofing (07 17)		
07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....	429.30	123.54
<i>For Application To Horizontal Surfaces, Deduct</i>	-37.07	
07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels.....	394.76	130.53
<i>For Application To Horizontal Surfaces, Deduct</i>	-40.12	
07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels.....	538.19	136.12
<i>For Application To Horizontal Surfaces, Deduct</i>	-40.83	
07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....	434.51	113.22
<i>For Application To Horizontal Surfaces, Deduct</i>	-33.95	
07 19 Water Repellents (07 10)		
07 19 13 Acrylic Sealer (07 19)		
Note: Per coat.		
07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer.....	2.34	
07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer.....	2.79	
07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer.....	3.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001 Silane Concrete Sealer (07 19 16)

07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.62	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.91	

07 19 16 00-0004 Silane/Siloxane Concrete Sealer (07 19 16)

07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.07	
<i>Note: 40% silane, alcohol based.</i>				
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.57	
<i>Note: 40% silane, alcohol based.</i>				
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.42	
<i>Note: 200 SF/GAL</i>				
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.62	

07 20 Thermal Protection (07)

07 21 Thermal Insulation (07 20)

07 21 13 Board Insulation (07 21)

Note: Types are stock sizes, mastic applied.

07 21 13 13 Foam Board Insulation (07 21 13)

07 21 13 13-0001 Cold Adhesive Applied Foam Board Insulation (07 21 13 13)

07 21 13 13-0002 Cold Adhesive Applied, Foam Glass (Cellular Glass), Foam Board Insulation (07 21 13 13-0001)

07 21 13 13-0003	SF	1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	2.56	0.40
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0004	SF	1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	3.37	0.41
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0005	SF	2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	3.91	0.41
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0006	SF	2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	4.97	0.42
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	

07 21 13 13-0007 Cold Adhesive Applied, Expanded Polystyrene, Foam Board Insulation (07 21 13 13-0001)

07 21 13 13-0008	SF	3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.59	0.40
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0009	SF	1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.47	0.40
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0010	SF	3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.61	0.40
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0011	SF	1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.74	0.40
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0012	SF	2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	2.27	0.41
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0013	SF	3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	2.79	0.42
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0014	SF	4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	3.32	0.43
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0015	SF	5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	3.85	0.44
<i>For Horizontal Surface Application, Deduct</i>			-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	
07 21 13 13-0016	SF	6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	4.36	0.45
<i>For Horizontal Surface Application, Deduct</i>			-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>			0.05	

07 21 13 13-0017 Cold Adhesive Applied, Extruded Polystyrene, Foam Board Insulation (07 21 13 13-0001)

Note: 15 PSI compressive strength.

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0018 SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	1.81	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.18	
For 40 PSI Compressive Strength, Add	0.44	
For 60 PSI Compressive Strength, Add	0.70	
For 115 PSI Compressive Strength, Add	3.02	
07 21 13 13-0019 SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.10	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.23	
For 40 PSI Compressive Strength, Add	0.55	
For 60 PSI Compressive Strength, Add	0.87	
For 115 PSI Compressive Strength, Add	3.77	
07 21 13 13-0020 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.35	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.27	
For 40 PSI Compressive Strength, Add	0.64	
For 60 PSI Compressive Strength, Add	1.01	
For 115 PSI Compressive Strength, Add	4.38	
07 21 13 13-0021 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	1.92	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.20	
For 40 PSI Compressive Strength, Add	0.48	
For 60 PSI Compressive Strength, Add	0.76	
For 115 PSI Compressive Strength, Add	3.28	
07 21 13 13-0022 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.64	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.31	
For 40 PSI Compressive Strength, Add	0.74	
For 60 PSI Compressive Strength, Add	1.17	
For 115 PSI Compressive Strength, Add	5.08	
07 21 13 13-0023 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	3.35	0.42
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.42	
For 40 PSI Compressive Strength, Add	1.01	
For 60 PSI Compressive Strength, Add	1.57	
For 115 PSI Compressive Strength, Add	6.88	
07 21 13 13-0024 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	3.72	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.48	
For 40 PSI Compressive Strength, Add	1.14	
For 60 PSI Compressive Strength, Add	1.78	
For 115 PSI Compressive Strength, Add	7.78	
07 21 13 13-0025 Mechanically Fastened Foam Board Insulation <small>(07 21 13 13)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0026 Mechanically Fastened, Foam Glass (Cellular Glass), Foam Board Insulation <small>(07 21 13 13-0025)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0027 SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	2.43	0.40
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.79	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.70	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 21 13 13-0028 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	3.29	0.41
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.71	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	



Thermal And Moisture Protection			07
Thermal Protection			07 20
Thermal Insulation			07 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0029 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	3.84	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 13-0030 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	4.97	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 13-0031 Mechanically Fastened, Expanded Polystyrene, Foam Board Insulation <small>(07 21 13 13-0025)</small>		
07 21 13 13-0032 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.45	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0033 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.34	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0034 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.46	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0035 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	1.60	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0036 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	2.20	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0037	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.79	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 13-0038	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.40	0.43
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 21 13 13-0039	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.04	0.44
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.02	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	6.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 21 13 13-0040	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.96	0.45
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 21 13 13-0041			Mechanically Fastened, Extruded Polystyrene, Foam Board Insulation (07 21 13 13-0025)		
			Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 21 13 13-0042	SF		3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	1.67	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.14	
			<i>For 40 PSI Compressive Strength, Add</i>	0.33	
			<i>For 60 PSI Compressive Strength, Add</i>	0.55	
			<i>For 115 PSI Compressive Strength, Add</i>	2.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0043	SF		1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	1.97	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.19	
			<i>For 40 PSI Compressive Strength, Add</i>	0.45	
			<i>For 60 PSI Compressive Strength, Add</i>	0.72	
			<i>For 115 PSI Compressive Strength, Add</i>	3.11	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0044 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.21	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
<i>For 40 PSI Compressive Strength, Add</i>	0.54	
<i>For 60 PSI Compressive Strength, Add</i>	0.86	
<i>For 115 PSI Compressive Strength, Add</i>	3.73	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0045 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	1.79	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.16	
<i>For 40 PSI Compressive Strength, Add</i>	0.38	
<i>For 60 PSI Compressive Strength, Add</i>	0.61	
<i>For 115 PSI Compressive Strength, Add</i>	2.62	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0046 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.58	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.28	
<i>For 40 PSI Compressive Strength, Add</i>	0.66	
<i>For 60 PSI Compressive Strength, Add</i>	1.05	
<i>For 115 PSI Compressive Strength, Add</i>	4.56	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 13-0047 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	3.35	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.40	
<i>For 40 PSI Compressive Strength, Add</i>	0.95	
<i>For 60 PSI Compressive Strength, Add</i>	1.49	
<i>For 115 PSI Compressive Strength, Add</i>	6.49	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 13-0048 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	3.80	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.47	
<i>For 40 PSI Compressive Strength, Add</i>	1.11	
<i>For 60 PSI Compressive Strength, Add</i>	1.74	
<i>For 115 PSI Compressive Strength, Add</i>	7.62	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 21 13 16 Fibrous Board Insulation (07 21 13)		
07 21 13 16-0001 Cold Adhesive Applied Fibrous Board Insulation (07 21 13 16)		
07 21 13 16-0002 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0003 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied.....	1.93	0.50
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0004 SF 2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	2.62	0.60
For Horizontal Surface Application, Deduct	-0.10	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0005 SF 3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	3.30	0.70
For Horizontal Surface Application, Deduct	-0.12	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0006 Cold Adhesive Applied, Fiberglass, Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0007 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	2.87	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0008 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	4.68	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0009 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	5.76	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0010 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	6.63	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0011 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	7.50	0.42
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0012 Mechanically Fastened Fibrous Board Insulation (07 21 13 16)		
Note: Mechanically fastened to wood or steel.		
07 21 13 16-0013 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0012)		
Note: Mechanically fastened to wood or steel.		
07 21 13 16-0014 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	1.66	0.50
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.79	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.70	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 21 13 16-0015 SF 2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	2.41	0.60
For Horizontal Surface Application, Deduct	-0.10	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.71	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 21 13 16-0016 SF 3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	3.14	0.70
For Horizontal Surface Application, Deduct	-0.12	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 21 13 16-0017 Mechanically Fastened, Fiberglass, Fibrous Board Insulation (07 21 13 16-0012)		
Note: Mechanically fastened to wood or steel.		



Thermal And Moisture Protection		07
Thermal Protection		07 20
Thermal Insulation		07 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0018 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	2.73	0.40
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.79	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.70	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 21 13 16-0019 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	4.61	0.41
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.71	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 21 13 16-0020 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	5.70	0.41
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.71	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 21 13 16-0021 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	6.63	0.41
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 21 13 16-0022 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	7.50	0.42
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 21 13 19 Mineral Board Insulation (07 21 13)		
07 21 13 19-0001 Cold Adhesive Applied Mineral Board Insulation (07 21 13 19)		
07 21 13 19-0002 Cold Adhesive Applied, High-Density Fiberboard, Mineral Board Insulation		
(07 21 13 19-0001)		
07 21 13 19-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.56	0.45
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.78	0.48
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.99	0.50
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied.....	2.37	0.55
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 19-0007	SF	2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	.....	2.75	0.60
		<i>For Horizontal Surface Application, Deduct</i>		-0.10	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
07 21 13 19-0008	SF	3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	.....	3.49	0.70
		<i>For Horizontal Surface Application, Deduct</i>		-0.12	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
07 21 13 19-0009		Mechanically Fastened Mineral Board Insulation (07 21 13 19)			
		Note: Mechanically fastened to wood or steel.			
07 21 13 19-0010		Mechanically Fastened, High-Density Fiberboard, Mineral Board Insulation			
		(07 21 13 19-0009)			
		Note: Mechanically fastened to wood or steel.			
07 21 13 19-0011	SF	1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	1.30	0.45
		<i>For Horizontal Surface Application, Deduct</i>		-0.08	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.43	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.75	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.79	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.04	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		0.76	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.70	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.07	
07 21 13 19-0012	SF	25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	1.51	0.48
		<i>For Horizontal Surface Application, Deduct</i>		-0.08	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.43	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.75	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.79	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.04	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		0.76	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.70	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.07	
07 21 13 19-0013	SF	1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	1.73	0.50
		<i>For Horizontal Surface Application, Deduct</i>		-0.09	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.43	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.75	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.50	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.79	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.04	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		0.76	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.70	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.07	
07 21 13 19-0014	SF	1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	2.15	0.55
		<i>For Horizontal Surface Application, Deduct</i>		-0.09	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.48	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.71	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.63	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.82	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.04	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		0.95	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.71	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.07	
07 21 13 19-0015	SF	2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	2.53	0.60
		<i>For Horizontal Surface Application, Deduct</i>		-0.10	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.48	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.71	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.63	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.82	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.06	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		0.95	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.71	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.09	
07 21 13 19-0016	SF	3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	.....	3.33	0.70
		<i>For Horizontal Surface Application, Deduct</i>		-0.12	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>		0.05	
		<i>For Factory Painted On One Surface Add</i>		0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>		1.52	
		<i>For Mechanically Fastened To Gypsum, Add</i>		1.77	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.72	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		1.92	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.17	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		1.08	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		2.89	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 21 16

Blanket Insulation (07 21)

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

07 21 16 00-0001	Fiberglass Flexible Insulation (07 21 16)		
	Note: Rolls or batts.		
07 21 16 00-0002	Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0003	SF 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.50 -0.15	0.52
07 21 16 00-0004	SF 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.59 -0.16	0.52
07 21 16 00-0005	SF 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.62 -0.17	0.52
07 21 16 00-0006	SF 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.08 -0.26	0.52
07 21 16 00-0007	SF 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.82 -0.20	0.52
07 21 16 00-0008	SF 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.45 -0.30	0.65
07 21 16 00-0009	SF 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.78 -0.34	0.65
07 21 16 00-0010	Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0011	SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.44 -0.13	0.52
07 21 16 00-0012	SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.54 -0.15	0.52
07 21 16 00-0013	SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.95 -0.24	0.52
07 21 16 00-0014	SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.01 -0.24	0.52
07 21 16 00-0015	SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.77 -0.19	0.52
07 21 16 00-0016	SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.32 -0.27	0.65
07 21 16 00-0017	SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.70 -0.32	0.65
07 21 16 00-0018	Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0019	SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.67 -0.18	0.52
07 21 16 00-0020	SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.83 -0.21	0.52
07 21 16 00-0021	SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.04 -0.24	0.52
07 21 16 00-0022	SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.84 -0.36	0.65
07 21 16 00-0023	SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.08 -0.40	0.65
07 21 16 00-0024	Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0025	SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.53 -0.15	0.52
07 21 16 00-0026	SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.62 -0.17	0.52
07 21 16 00-0027	SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.13 -0.27	0.52
07 21 16 00-0028	SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.84 -0.20	0.52
07 21 16 00-0029	SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.37 -0.29	0.65
07 21 16 00-0030	SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.70 -0.32	0.65
07 21 16 00-0031	Mineral Wool Flexible Insulation (07 21 16)		
07 21 16 00-0032	Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0033	SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.64 -0.17	0.52
07 21 16 00-0034	SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.11 -0.25	0.52
07 21 16 00-0035	SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	3.15 -0.44	0.52
07 21 16 00-0036	SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	3.73 -0.53	0.52

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0037			Unfaced, Mineral Wool Flexible Insulation <small>(07 21 16 00-0031)</small>		
07 21 16 00-0038	SF		3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation.....	1.55	0.52
			<i>For >1,600, Deduct</i>	-0.16	
07 21 16 00-0039	SF		6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation.....	1.96	0.52
			<i>For >1,600, Deduct</i>	-0.22	
07 21 16 00-0040	SF		9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation.....	2.87	0.52
			<i>For >1,600, Deduct</i>	-0.38	
07 21 16 00-0041	SF		12" Unfaced, R-38 Mineral Wool Flexible Insulation.....	3.39	0.52
			<i>For >1,600, Deduct</i>	-0.46	
07 21 16 00-0042			Natural Cotton Insulation <small>(07 21 16)</small>		
07 21 16 00-0043			UltraTouch™ Natural Cotton Insulation <small>(07 21 16 00-0042)</small>		
			Note: 85% recycled denim cotton.		
07 21 16 00-0044	SF		3-1/2", R-13 UltraTouch™ Natural Cotton Insulation.....	2.13	0.52
			<i>For >1,600, Deduct</i>	-0.27	
07 21 16 00-0045	SF		5-1/2", R-19 UltraTouch™ Natural Cotton Insulation.....	2.36	0.52
			<i>For >1,600, Deduct</i>	-0.31	
07 21 16 00-0046	SF		5-1/2", R-21 UltraTouch™ Natural Cotton Insulation.....	2.59	0.52
			<i>For >1,600, Deduct</i>	-0.36	
07 21 16 00-0047	SF		8", R-30 UltraTouch™ Natural Cotton Insulation.....	3.39	0.52
			<i>For >1,600, Deduct</i>	-0.50	
07 21 19			Foamed-In-Place Insulation <small>(07 21)</small>		
07 21 19 00-0001			Polyurethane Foam Insulation, Sprayed On <small>(07 21 19)</small>		
07 21 19 00-0002	SF		1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.33	
07 21 19 00-0003	SF		2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.25	
07 21 19 00-0004	SF		3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.17	
07 21 19 00-0005	SF		4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.08	
07 21 19 00-0006	SF		5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.99	
07 21 19 00-0007	SF		6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.92	
07 21 19 00-0008	SF		1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	2.56	
07 21 19 00-0009	SF		2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	4.08	
07 21 19 00-0010	SF		3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	5.59	
07 21 19 00-0011	SF		4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	7.12	
07 21 19 00-0012	SF		5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	8.64	
07 21 19 00-0013	SF		6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	10.15	
07 21 23			Loose-Fill Insulation <small>(07 21)</small>		
07 21 23 00-0001			Poured Type, Loose Fill Insulation <small>(07 21 23)</small>		
07 21 23 00-0002	CF		R-4/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	7.47	3.02
07 21 23 00-0003	CF		R-3.8/Inch, Poured Type, Cellulose Loose Fill Insulation.....	7.89	3.02
07 21 23 00-0004			Concrete Block Wall Cavity Insulation <small>(07 21 23)</small>		
07 21 23 00-0005	CF		R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	9.62	3.02
07 21 23 00-0006	CF		R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	9.55	3.02
07 21 26			Blown Insulation <small>(07 21)</small>		
07 21 26 00-0001			Fiberglass Blown-In Insulation <small>(07 21 26)</small>		
07 21 26 00-0002			Attic, Fiberglass Blown-In Insulation <small>(07 21 26 00-0001)</small>		
07 21 26 00-0003	SF		4-1/2" Thick, R-11 Attic, Fiberglass Blown In Insulation.....	1.48	1.24
07 21 26 00-0004	SF		5-1/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.65	1.36
07 21 26 00-0005	SF		6-1/2" Thick, R-17 Attic, Fiberglass Blown In Insulation.....	1.83	1.49
07 21 26 00-0006	SF		7-1/2" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	2.04	1.62
07 21 26 00-0007	SF		8-1/2" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	2.15	1.67
07 21 26 00-0008	SF		10-1/4" Thick, R-26 Attic, Fiberglass Blown In Insulation.....	2.32	1.74
07 21 26 00-0009	SF		11-1/2" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.47	1.80
07 21 26 00-0010	SF		12-1/2" Thick, R-32 Attic, Fiberglass Blown In Insulation.....	2.59	1.86
07 21 26 00-0011	SF		13-1/2" Thick, R-35 Attic, Fiberglass Blown In Insulation.....	2.77	1.98
07 21 26 00-0012	SF		14-1/2" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	2.93	2.05
07 21 26 00-0013	SF		16-1/2" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	3.13	2.11
07 21 26 00-0014	SF		18-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	3.37	2.23
07 21 26 00-0015	SF		21-3/4" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	3.90	2.49
07 21 26 00-0016			New Wall, Fiberglass Blown-In Insulation <small>(07 21 26 00-0001)</small>		
07 21 26 00-0017	SF		3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation.....	2.07	1.24
07 21 26 00-0018	SF		5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation.....	2.73	1.49
07 21 26 00-0019	SF		7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation.....	3.21	1.62
07 21 26 00-0020	SF		9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation.....	3.78	1.74



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 26 00-0021				Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001) Note: Includes drilling. Excludes patching.		
07 21 26 00-0022	SF			3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation	1.98	1.24
07 21 26 00-0023	SF			5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation	2.64	1.49
07 21 26 00-0024	SF			7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation	3.12	1.62
07 21 26 00-0025	SF			9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation	3.69	1.74
07 21 26 00-0026				Cellulose Blown-In Insulation (07 21 26)		
07 21 26 00-0027				Attic, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0028	SF			3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation	1.56	1.24
07 21 26 00-0029	SF			5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation	1.85	1.36
07 21 26 00-0030	SF			6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation	2.07	1.49
07 21 26 00-0031	SF			7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation	2.40	1.62
07 21 26 00-0032	SF			8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation	2.44	1.62
07 21 26 00-0033	SF			10-3/4" Thick, R-38 Attic, Cellulose Blown In Insulation	2.81	1.74
07 21 26 00-0034	SF			11-1/4" Thick, R-40 Attic, Cellulose Blown In Insulation	2.88	1.74
07 21 26 00-0035	SF			12-1/2" Thick, R-45 Attic, Cellulose Blown In Insulation	3.15	1.86
07 21 26 00-0036	SF			13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation	3.33	1.86
07 21 26 00-0037	SF			15-1/2" Thick, R-55 Attic, Cellulose Blown In Insulation	3.59	1.98
07 21 26 00-0038	SF			16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation	3.76	1.98
07 21 26 00-0039				New Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0040	SF			3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation	2.02	1.24
07 21 26 00-0041	SF			5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation	2.66	1.49
07 21 26 00-0042	SF			7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation	3.12	1.62
07 21 26 00-0043	SF			9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation	3.66	1.74
07 21 26 00-0044				Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0026) Note: Includes drilling. Excludes patching.		
07 21 26 00-0045	SF			3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation	1.93	1.24
07 21 26 00-0046	SF			5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation	2.57	1.49
07 21 26 00-0047	SF			7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation	3.03	1.62
07 21 26 00-0048	SF			9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation	3.57	1.74
07 21 29				Sprayed Insulation (07 21)		
07 21 29 00-0001				Fiber Sprayed On Insulation (07 21 29)		
07 21 29 00-0002	SF			1" Thick, R2.7, Spray-on Perlite Insulation	2.21	0.67
07 21 29 00-0003	SF			1" Thick, R3.7, Spray-on Fibrous/Cementitious Insulation	1.63	0.67
07 21 29 00-0004				Cellulose Sprayed On Insulation (07 21 29)		
07 21 29 00-0005	SF			1" Thick, Spray-on Cellulose Insulation	3.09	0.67
07 21 53				Reflective Insulation (07 21)		
07 21 53 00-0001				Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)		
07 21 53 00-0002	SF			3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space	1.13	
07 22				Roof and Deck Insulation (07 20)		
07 22 16				Roof Board Insulation (07 22)		
				Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 22 16 00-0001				Rigid Board Roofing Insulation (07 22 16)		
				Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.		
07 22 16 00-0002				Cold Adhesive Applied Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0003				Cold Adhesive Applied, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0004	SF			1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	1.97	
07 22 16 00-0005	SF			25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.21	
07 22 16 00-0006	SF			1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.43	
07 22 16 00-0007	SF			1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.86	
07 22 16 00-0008	SF			2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	3.28	
07 22 16 00-0009				Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0010	SF			1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied	2.34	
07 22 16 00-0011	SF			1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied	2.37	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0012	Cold Adhesive Applied, Perlite, Roof Board Insulation <small>(07 22 16 00-0002)</small>	
07 22 16 00-0013	SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	1.87
07 22 16 00-0014	SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	1.87
07 22 16 00-0015	SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	1.99
07 22 16 00-0016	SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.14
07 22 16 00-0017	SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.49
07 22 16 00-0018	SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.72
07 22 16 00-0019	Cold Adhesive Applied, Basalt Mineral Wool, Roof Board Insulation <small>(07 22 16 00-0002)</small>	
07 22 16 00-0020	SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied.....	2.33
07 22 16 00-0021	SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied.....	2.89
07 22 16 00-0022	SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied.....	3.57
07 22 16 00-0023	Cold Adhesive Applied, Foam Glass (Cellular Glass), Roof Board Insulation <small>(07 22 16 00-0002)</small>	
07 22 16 00-0024	SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	3.73
07 22 16 00-0025	SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	4.27
07 22 16 00-0026	SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	5.35
07 22 16 00-0027	SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	10.28
07 22 16 00-0028	Cold Adhesive Applied, Molded Expanded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0002)</small>	
07 22 16 00-0029	SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	2.04
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0030	SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	1.92
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0031	SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	2.06
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0032	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	2.20
	<i>For Loose-Laid, Deduct</i>	-1.11
07 22 16 00-0033	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	2.73
	<i>For Loose-Laid, Deduct</i>	-1.12
07 22 16 00-0034	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	3.27
	<i>For Loose-Laid, Deduct</i>	-1.13
07 22 16 00-0035	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	3.81
	<i>For Loose-Laid, Deduct</i>	-1.15
07 22 16 00-0036	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	4.35
	<i>For Loose-Laid, Deduct</i>	-1.16
07 22 16 00-0037	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied.....	4.88
	<i>For Loose-Laid, Deduct</i>	-1.18
07 22 16 00-0038	Cold Adhesive Applied, Extruded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0002)</small>	
	Note: 15 PSI compressive strength.	
07 22 16 00-0039	SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied.....	2.70
	<i>For Loose-Laid, Deduct</i>	-1.05
	<i>For 25 PSI Compressive Strength, Add</i>	0.27
	<i>For 40 PSI Compressive Strength, Add</i>	0.64
	<i>For 60 PSI Compressive Strength, Add</i>	1.03
	<i>For 115 PSI Compressive Strength, Add</i>	4.42
07 22 16 00-0040	SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied.....	2.28
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For 25 PSI Compressive Strength, Add</i>	0.20
	<i>For 40 PSI Compressive Strength, Add</i>	0.48
	<i>For 60 PSI Compressive Strength, Add</i>	0.78
	<i>For 115 PSI Compressive Strength, Add</i>	3.32
07 22 16 00-0041	SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied.....	3.47
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For 25 PSI Compressive Strength, Add</i>	0.39
	<i>For 40 PSI Compressive Strength, Add</i>	0.93
	<i>For 60 PSI Compressive Strength, Add</i>	1.47
	<i>For 100 PSI Compressive Strength, Add</i>	1.88
	<i>For 115 PSI Compressive Strength, Add</i>	6.37
07 22 16 00-0042	SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied.....	3.00
	<i>For Loose-Laid, Deduct</i>	-1.07
	<i>For 25 PSI Compressive Strength, Add</i>	0.31
	<i>For 40 PSI Compressive Strength, Add</i>	0.74
	<i>For 60 PSI Compressive Strength, Add</i>	1.18
	<i>For 115 PSI Compressive Strength, Add</i>	5.12
07 22 16 00-0043	SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied.....	4.75
	<i>For Loose-Laid, Deduct</i>	-1.07
	<i>For 25 PSI Compressive Strength, Add</i>	0.59
	<i>For 40 PSI Compressive Strength, Add</i>	1.41
	<i>For 60 PSI Compressive Strength, Add</i>	2.20
	<i>For 100 PSI Compressive Strength, Add</i>	2.83
	<i>For 115 PSI Compressive Strength, Add</i>	9.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0044 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.73	
<i>For Loose-Laid, Deduct</i>	-1.08	
<i>For 25 PSI Compressive Strength, Add</i>	0.42	
<i>For 40 PSI Compressive Strength, Add</i>	1.01	
<i>For 60 PSI Compressive Strength, Add</i>	1.59	
<i>For 115 PSI Compressive Strength, Add</i>	6.92	
07 22 16 00-0045 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.10	
<i>For Loose-Laid, Deduct</i>	-1.09	
<i>For 25 PSI Compressive Strength, Add</i>	0.48	
<i>For 40 PSI Compressive Strength, Add</i>	1.14	
<i>For 60 PSI Compressive Strength, Add</i>	1.80	
<i>For 115 PSI Compressive Strength, Add</i>	7.82	
07 22 16 00-0046 Cold Adhesive Applied, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0047 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	2.43	
<i>For Loose-Laid, Deduct</i>	-1.05	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.14	
07 22 16 00-0048 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	2.53	
<i>For Loose-Laid, Deduct</i>	-1.06	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.15	
07 22 16 00-0049 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	2.66	
<i>For Loose-Laid, Deduct</i>	-1.06	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.16	
07 22 16 00-0050 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.03	
<i>For Loose-Laid, Deduct</i>	-1.07	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.20	
07 22 16 00-0051 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.41	
<i>For Loose-Laid, Deduct</i>	-1.08	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
07 22 16 00-0052 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.77	
<i>For Loose-Laid, Deduct</i>	-1.08	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.27	
07 22 16 00-0053 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	4.17	
<i>For Loose-Laid, Deduct</i>	-1.09	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.31	
07 22 16 00-0054 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	4.52	
<i>For Loose-Laid, Deduct</i>	-1.09	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.34	
07 22 16 00-0055 Cold Adhesive Applied, High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0056 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Cold Adhesive Applied.....	2.76	
07 22 16 00-0057 Cold Adhesive Applied, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0058 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.62	
07 22 16 00-0059 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.77	
07 22 16 00-0060 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.87	
07 22 16 00-0061 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.92	
07 22 16 00-0062 Cold Adhesive Applied, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0063 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.57	
07 22 16 00-0064 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.80	
07 22 16 00-0065 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.85	
07 22 16 00-0066 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation (07 22 16 00-0002)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0067 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.40	
07 22 16 00-0068 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.61	
07 22 16 00-0069 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.90	
07 22 16 00-0070 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.08	
07 22 16 00-0071 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.52	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0072	SF		4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied.....	5.69	
07 22 16 00-0073	SF		4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied.....	6.00	
07 22 16 00-0074			Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0002) Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0075	SF		2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.44	
07 22 16 00-0076	SF		3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.82	
07 22 16 00-0077	SF		3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.27	
07 22 16 00-0078	SF		4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.56	
07 22 16 00-0079	SF		4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.94	
07 22 16 00-0080	SF		5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.34	
07 22 16 00-0081	SF		5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.08	
07 22 16 00-0082			Hot-Mopped Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0083			Hot-Mopped, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0084	SF		1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	1.79	
07 22 16 00-0085	SF		25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.02	
07 22 16 00-0086	SF		1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.26	
07 22 16 00-0087	SF		1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.69	
07 22 16 00-0088	SF		2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	3.13	
07 22 16 00-0089			Hot-Mopped, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0090	SF		1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped.....	2.16	
07 22 16 00-0091	SF		1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped.....	2.20	
07 22 16 00-0092			Hot-Mopped, Perlite, Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0093	SF		1/2" Thick, R1.32, Perlite, Roof Board Insulation, Hot-Mopped	1.67	
07 22 16 00-0094	SF		3/4" Thick, R2.08, Perlite, Roof Board Insulation, Hot-Mopped	1.79	
07 22 16 00-0095	SF		1" Thick, R2.78, Perlite, Roof Board Insulation, Hot-Mopped	1.94	
07 22 16 00-0096	SF		1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Hot-Mopped	2.29	
07 22 16 00-0097	SF		2" Thick, R5.56, Perlite, Roof Board Insulation, Hot-Mopped	2.52	
07 22 16 00-0098			Hot-Mopped, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0099	SF		1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	2.13	
07 22 16 00-0100	SF		2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	2.69	
07 22 16 00-0101	SF		3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	3.38	
07 22 16 00-0102			Hot-Mopped, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0103	SF		1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	3.52	
07 22 16 00-0104	SF		2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	4.06	
07 22 16 00-0105	SF		2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	5.17	
07 22 16 00-0106	SF		3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	10.10	
07 22 16 00-0107			Hot-Mopped, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0062)		
07 22 16 00-0108	SF		3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.85	
07 22 16 00-0109	SF		1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.74	
07 22 16 00-0110	SF		3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.76	
07 22 16 00-0111	SF		1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.99	
07 22 16 00-0112	SF		2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	2.53	
07 22 16 00-0113	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	3.08	
07 22 16 00-0114	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	3.62	
07 22 16 00-0115	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	4.17	
07 22 16 00-0116	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	4.70	
07 22 16 00-0117			Hot-Mopped, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0062) Note: 15 PSI compressive strength.		
07 22 16 00-0118	SF		3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	2.50	
			For 25 PSI Compressive Strength, Add	0.22	
			For 40 PSI Compressive Strength, Add	0.52	
			For 60 PSI Compressive Strength, Add	0.86	
			For 115 PSI Compressive Strength, Add	3.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0119 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.08	
<i>For 25 PSI Compressive Strength, Add</i>	0.15	
<i>For 40 PSI Compressive Strength, Add</i>	0.36	
<i>For 60 PSI Compressive Strength, Add</i>	0.61	
<i>For 115 PSI Compressive Strength, Add</i>	2.55	
07 22 16 00-0120 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.27	
<i>For 25 PSI Compressive Strength, Add</i>	0.34	
<i>For 40 PSI Compressive Strength, Add</i>	0.81	
<i>For 60 PSI Compressive Strength, Add</i>	1.30	
<i>For 100 PSI Compressive Strength, Add</i>	1.66	
<i>For 115 PSI Compressive Strength, Add</i>	5.61	
07 22 16 00-0121 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.93	
<i>For 25 PSI Compressive Strength, Add</i>	0.26	
<i>For 40 PSI Compressive Strength, Add</i>	0.63	
<i>For 60 PSI Compressive Strength, Add</i>	1.02	
<i>For 115 PSI Compressive Strength, Add</i>	4.37	
07 22 16 00-0122 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	14.99	
<i>For 25 PSI Compressive Strength, Add</i>	0.54	
<i>For 40 PSI Compressive Strength, Add</i>	1.29	
<i>For 60 PSI Compressive Strength, Add</i>	2.55	
<i>For 100 PSI Compressive Strength, Add</i>	3.13	
<i>For 115 PSI Compressive Strength, Add</i>	9.90	
07 22 16 00-0123 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.54	
<i>For 25 PSI Compressive Strength, Add</i>	0.37	
<i>For 40 PSI Compressive Strength, Add</i>	0.89	
<i>For 60 PSI Compressive Strength, Add</i>	1.42	
<i>For 115 PSI Compressive Strength, Add</i>	6.13	
07 22 16 00-0124 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.91	
<i>For 25 PSI Compressive Strength, Add</i>	0.43	
<i>For 40 PSI Compressive Strength, Add</i>	1.02	
<i>For 60 PSI Compressive Strength, Add</i>	1.62	
<i>For 115 PSI Compressive Strength, Add</i>	7.04	
07 22 16 00-0125 Hot-Mopped, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0082)		
07 22 16 00-0126 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.23	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.11	
07 22 16 00-0127 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.32	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.12	
07 22 16 00-0128 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.46	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.13	
07 22 16 00-0129 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.83	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.17	
07 22 16 00-0130 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.22	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.20	
07 22 16 00-0131 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.59	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.24	
07 22 16 00-0132 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.87	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.28	
07 22 16 00-0133 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	4.34	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.31	
07 22 16 00-0134 Hot-Mopped, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0135 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.44	
07 22 16 00-0136 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.59	
07 22 16 00-0137 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.69	
07 22 16 00-0138 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.74	
07 22 16 00-0139 Hot-Mopped, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0140 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.39	
07 22 16 00-0141 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.61	
07 22 16 00-0142 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.66	
07 22 16 00-0143 Mechanically Fastened Rigid Board Roofing Insulation (07 22 16 00-0001)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0144 Mechanically Fastened, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0145 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	1.71	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0146 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	1.94	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.12	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.00	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0147 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	2.17	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0148 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	2.64	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0149 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	3.06	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0150 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0151 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened.....	2.07	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0152 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened.....	2.10	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0153 Mechanically Fastened, Perlite, Roof Board Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0154 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Mechanically Fastened.....	1.60	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0155 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Mechanically Fastened	1.73	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0156 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Mechanically Fastened	1.88	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0157 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Mechanically Fastened	2.28	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0158 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Mechanically Fastened	2.51	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0159 Mechanically Fastened, Basalt Mineral Wool, Roof Board Insulation <small>(07 22 16 00-0143)</small>		
<i>Note: Mechanically fastened to wood or steel.</i>		
07 22 16 00-0160 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	2.07	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0161 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	2.68	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0162 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	3.41	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0163 Mechanically Fastened, Foam Glass (Cellular Glass), Roof Board Insulation <small>(07 22 16 00-0143)</small>		
<i>Note: Mechanically fastened to wood or steel.</i>		
07 22 16 00-0164 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	3.51	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 22 16 00-0165	SF	2"	Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	4.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0166	SF	2-3/4"	Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	5.20	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0167	SF	3-1/2"	Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	10.21	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.72	
07 22 16 00-0168			Mechanically Fastened, Molded Expanded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0143)</small>		
			Note: Mechanically fastened to wood or steel.		
07 22 16 00-0169	SF	3/8"	Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.77	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.08	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0170	SF	1/2"	Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.66	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.08	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0171	SF	3/4"	Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.79	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.08	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0172	SF	1"	Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.93	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.08	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0173	SF	2"	Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.51	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0174	SF	3"	Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.11	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.31	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.28	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0175 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.74	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0176 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	4.39	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.00	
07 22 16 00-0177 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	5.46	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.97	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.25	
07 22 16 00-0178 Mechanically Fastened, Extruded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0143)</small>		
Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 22 16 00-0179 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	2.44	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
<i>For 40 PSI Compressive Strength, Add</i>	0.54	
<i>For 60 PSI Compressive Strength, Add</i>	0.87	
<i>For 115 PSI Compressive Strength, Add</i>	3.75	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0180 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	2.02	
<i>For 25 PSI Compressive Strength, Add</i>	0.16	
<i>For 40 PSI Compressive Strength, Add</i>	0.38	
<i>For 60 PSI Compressive Strength, Add</i>	0.63	
<i>For 115 PSI Compressive Strength, Add</i>	2.65	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0181 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.26	
<i>For 25 PSI Compressive Strength, Add</i>	0.36	
<i>For 40 PSI Compressive Strength, Add</i>	0.85	
<i>For 60 PSI Compressive Strength, Add</i>	1.34	
<i>For 100 PSI Compressive Strength, Add</i>	1.72	
<i>For 115 PSI Compressive Strength, Add</i>	5.83	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0182 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	2.79	
<i>For 25 PSI Compressive Strength, Add</i>	0.28	
<i>For 40 PSI Compressive Strength, Add</i>	0.66	
<i>For 60 PSI Compressive Strength, Add</i>	1.06	
<i>For 115 PSI Compressive Strength, Add</i>	4.58	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 22 16 00-0183	SF	2-1/2"	Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	4.59	
			<i>For 25 PSI Compressive Strength, Add</i>	0.57	
			<i>For 40 PSI Compressive Strength, Add</i>	1.35	
			<i>For 60 PSI Compressive Strength, Add</i>	2.11	
			<i>For 100 PSI Compressive Strength, Add</i>	2.71	
			<i>For 115 PSI Compressive Strength, Add</i>	9.20	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.27	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.24	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0184	SF	3"	Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	3.57	
			<i>For 25 PSI Compressive Strength, Add</i>	0.40	
			<i>For 40 PSI Compressive Strength, Add</i>	0.95	
			<i>For 60 PSI Compressive Strength, Add</i>	1.50	
			<i>For 115 PSI Compressive Strength, Add</i>	6.51	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0185	SF	4"	Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	4.03	
			<i>For 25 PSI Compressive Strength, Add</i>	0.47	
			<i>For 40 PSI Compressive Strength, Add</i>	1.11	
			<i>For 60 PSI Compressive Strength, Add</i>	1.75	
			<i>For 115 PSI Compressive Strength, Add</i>	7.64	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0186			Mechanically Fastened, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0143)		
			Note: Mechanically fastened to wood or steel.		
07 22 16 00-0187	SF	3/4"	Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.17	
			<i>For Foil Facer, Add</i>	0.36	
			<i>For 25 PSI Compressive Strength, Add</i>	0.12	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0188	SF	1"	Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.26	
			<i>For Foil Facer, Add</i>	0.36	
			<i>For 25 PSI Compressive Strength, Add</i>	0.12	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0189	SF	1-1/2"	Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.45	
			<i>For Foil Facer, Add</i>	0.36	
			<i>For 25 PSI Compressive Strength, Add</i>	0.14	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0190 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.82	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.18	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0191 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.25	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.22	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.27	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.24	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0192 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.61	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.25	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.25	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 22 16 00-0193 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.10	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.30	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.02	
07 22 16 00-0194 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.45	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.34	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0195 Mechanically Fastened, High-Density Polyisocyanurate Cover Board And Roofing Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0196 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Mechanically Fastened	2.50	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0197 Mechanically Fastened, Gypsum-Fiber, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0198 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	2.36	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0199 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.51	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0200 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.61	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0201 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.66	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0202 Mechanically Fastened, Glass-Mat, Roof Board Insulation (USG Securock)		
<small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0203 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.30	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0204 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.53	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0205 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.58	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0206 Mechanically Fastened, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation		
<small>(07 22 16 00-0143)</small>		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.		
07 22 16 00-0207 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.19	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0208 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.40	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0209 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.75	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.41	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0210 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.92	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.44	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.41	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0211 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.45	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.89	
07 22 16 00-0212 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.62	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0213 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.04	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.97	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0214 Mechanically Fastened, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation <small>(07 22 16 00-0143)</small>		
<small>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.</small>		
07 22 16 00-0215 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.43	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.40	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0216 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.66	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.43	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.40	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0217 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.20	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0218 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.49	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0219 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.98	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.92	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.12	
07 22 16 00-0220 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.38	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.93	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.13	
07 22 16 00-0221 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	7.51	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	3.13	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.41	
07 22 16 00-0222 Rigid Board Tapered Roofing Insulation (07 22 16)		
Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or cover board.		
07 22 16 00-0223 Cold Adhesive Applied Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0224 Cold Adhesive Applied, Tapered Polyisocyanurate Board (07 22 16 00-0223)		
Note: Includes polyurethane adhesive.		
07 22 16 00-0225 Cold Adhesive Applied, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		
07 22 16 00-0226 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.28	
For 25 PSI Compressive Strength, Add	0.27	
07 22 16 00-0227 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.01	
For 25 PSI Compressive Strength, Add	0.32	
07 22 16 00-0228 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.49	
For 25 PSI Compressive Strength, Add	0.37	
07 22 16 00-0229 SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.98	
For 25 PSI Compressive Strength, Add	0.42	
07 22 16 00-0230 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.46	
For 25 PSI Compressive Strength, Add	0.47	
07 22 16 00-0231 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.20	
For 25 PSI Compressive Strength, Add	0.52	
07 22 16 00-0232 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.69	
For 25 PSI Compressive Strength, Add	0.57	
07 22 16 00-0233 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.17	
For 25 PSI Compressive Strength, Add	0.62	
07 22 16 00-0234 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.66	
For 25 PSI Compressive Strength, Add	0.66	
07 22 16 00-0235 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.38	
For 25 PSI Compressive Strength, Add	0.71	
07 22 16 00-0236 Cold Adhesive Applied, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0237 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	4.04	
For 25 PSI Compressive Strength, Add	0.25	
07 22 16 00-0238 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	6.25	
For 25 PSI Compressive Strength, Add	0.35	
07 22 16 00-0239 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	7.22	
For 25 PSI Compressive Strength, Add	0.44	
07 22 16 00-0240 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	9.45	
For 25 PSI Compressive Strength, Add	0.54	
07 22 16 00-0241 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	10.42	
For 25 PSI Compressive Strength, Add	0.64	
07 22 16 00-0242 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	12.62	
For 25 PSI Compressive Strength, Add	0.74	
07 22 16 00-0243 Cold Adhesive Applied, 1/2" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0224)</small>		
07 22 16 00-0244 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	6.73	
For 25 PSI Compressive Strength, Add	0.40	
07 22 16 00-0245 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	9.93	
For 25 PSI Compressive Strength, Add	0.59	
07 22 16 00-0246 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	13.10	
For 25 PSI Compressive Strength, Add	0.79	
07 22 16 00-0247 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	16.30	
For 25 PSI Compressive Strength, Add	0.98	
07 22 16 00-0248 Cold Adhesive Applied, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0223)</small>		
Note: Includes polyurethane adhesive.		
07 22 16 00-0249 Cold Adhesive Applied, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0250 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	3.73	
07 22 16 00-0251 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	5.47	
07 22 16 00-0252 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	5.83	
07 22 16 00-0253 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.20	
07 22 16 00-0254 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.56	
07 22 16 00-0255 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	8.31	
07 22 16 00-0256 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	8.67	
07 22 16 00-0257 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.03	
07 22 16 00-0258 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.40	
07 22 16 00-0259 SF 6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	11.12	
07 22 16 00-0260 Cold Adhesive Applied, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0261 SF 2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	3.55	
07 22 16 00-0262 SF 3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	5.65	
07 22 16 00-0263 SF 4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.38	
07 22 16 00-0264 SF 5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	8.49	
07 22 16 00-0265 SF 6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.22	
07 22 16 00-0266 SF 7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	11.31	
07 22 16 00-0267 Cold Adhesive Applied, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0268 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.01	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0269 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	8.85	
07 22 16 00-0270 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	11.67	
07 22 16 00-0271 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	14.87	
07 22 16 00-0272 Cold Adhesive Applied, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0223)</small> Note: Includes polyurethane adhesive.		
07 22 16 00-0273 Cold Adhesive Applied, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0274 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	4.17	
07 22 16 00-0275 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	5.90	
07 22 16 00-0276 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.36	
07 22 16 00-0277 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.82	
07 22 16 00-0278 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.28	
07 22 16 00-0279 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.03	
07 22 16 00-0280 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.49	
07 22 16 00-0281 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.95	
07 22 16 00-0282 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.41	
07 22 16 00-0283 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.13	
07 22 16 00-0284 Cold Adhesive Applied, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0285 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	3.94	
07 22 16 00-0286 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.13	
07 22 16 00-0287 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.05	
07 22 16 00-0288 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.26	
07 22 16 00-0289 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.18	
07 22 16 00-0290 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.36	
07 22 16 00-0291 Cold Adhesive Applied, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0292 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.59	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
07 22 16 00-0293 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.72	
07 22 16 00-0294 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.82	
07 22 16 00-0295 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	15.94	
07 22 16 00-0296 Cold Adhesive Applied, Tapered Perlite Board <small>(07 22 16 00-0223)</small> Note: Includes polyurethane adhesive.		
07 22 16 00-0297 Cold Adhesive Applied, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0296)</small>		
07 22 16 00-0298 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	5.01	
07 22 16 00-0299 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.07	
07 22 16 00-0300 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.80	
07 22 16 00-0301 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.14	
07 22 16 00-0302 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.88	
07 22 16 00-0303 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.94	
07 22 16 00-0304 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	9.68	
07 22 16 00-0305 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.01	
07 22 16 00-0306 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.75	
07 22 16 00-0307 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.80	
07 22 16 00-0308 Cold Adhesive Applied, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0296)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0309	SF			2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	4.64	
07 22 16 00-0310	SF			3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	6.44	
07 22 16 00-0311	SF			4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	7.51	
07 22 16 00-0312	SF			5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	9.31	
07 22 16 00-0313	SF			6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	10.38	
07 22 16 00-0314	SF			7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied	12.17	
07 22 16 00-0315				Cold Adhesive Applied, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0296)</small>		
07 22 16 00-0316	SF			3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied	7.17	
07 22 16 00-0317	SF			5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied	10.04	
07 22 16 00-0318	SF			7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied	12.90	
07 22 16 00-0319	SF			9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied	15.77	
07 22 16 00-0320				Hot-Mopped Rigid Board Tapered Roofing Insulation <small>(07 22 16 00-0222)</small>		
07 22 16 00-0321				Hot-Mopped, Tapered Polyisocyanurate Board <small>(07 22 16 00-0320)</small>		
07 22 16 00-0322				Hot-Mopped, 1/8" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0321)</small>		
07 22 16 00-0323	SF			2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	3.97	
				<i>For 25 PSI Compressive Strength, Add</i>	0.24	
07 22 16 00-0324	SF			2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	5.73	
				<i>For 25 PSI Compressive Strength, Add</i>	0.27	
07 22 16 00-0325	SF			3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.21	
				<i>For 25 PSI Compressive Strength, Add</i>	0.31	
07 22 16 00-0326	SF			3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.41	
				<i>For 25 PSI Compressive Strength, Add</i>	0.36	
07 22 16 00-0327	SF			4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	7.18	
				<i>For 25 PSI Compressive Strength, Add</i>	0.41	
07 22 16 00-0328	SF			4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	8.78	
				<i>For 25 PSI Compressive Strength, Add</i>	0.44	
07 22 16 00-0329	SF			5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.27	
				<i>For 25 PSI Compressive Strength, Add</i>	0.48	
07 22 16 00-0330	SF			5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.75	
				<i>For 25 PSI Compressive Strength, Add</i>	0.53	
07 22 16 00-0331	SF			6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	10.23	
				<i>For 25 PSI Compressive Strength, Add</i>	0.58	
07 22 16 00-0332	SF			6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	11.82	
				<i>For 25 PSI Compressive Strength, Add</i>	0.60	
07 22 16 00-0333				Hot-Mopped, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0321)</small>		
07 22 16 00-0334	SF			2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	3.89	
				<i>For 25 PSI Compressive Strength, Add</i>	0.22	
07 22 16 00-0335	SF			3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	5.97	
				<i>For 25 PSI Compressive Strength, Add</i>	0.29	
07 22 16 00-0336	SF			4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	6.94	
				<i>For 25 PSI Compressive Strength, Add</i>	0.39	
07 22 16 00-0337	SF			5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	9.02	
				<i>For 25 PSI Compressive Strength, Add</i>	0.46	
07 22 16 00-0338	SF			6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	9.99	
				<i>For 25 PSI Compressive Strength, Add</i>	0.56	
07 22 16 00-0339	SF			7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	12.06	
				<i>For 25 PSI Compressive Strength, Add</i>	0.63	
07 22 16 00-0340				Hot-Mopped, 1/2" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0321)</small>		
07 22 16 00-0341	SF			3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.45	
				<i>For 25 PSI Compressive Strength, Add</i>	0.34	
07 22 16 00-0342	SF			5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.51	
				<i>For 25 PSI Compressive Strength, Add</i>	0.51	
07 22 16 00-0343	SF			7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	12.54	
				<i>For 25 PSI Compressive Strength, Add</i>	0.68	
07 22 16 00-0344	SF			9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	15.59	
				<i>For 25 PSI Compressive Strength, Add</i>	0.85	
07 22 16 00-0345				Hot-Mopped, Tapered Perlite Board <small>(07 22 16 00-0320)</small>		
07 22 16 00-0346				Hot-Mopped, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>		
07 22 16 00-0347	SF			2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	4.35	
07 22 16 00-0348	SF			2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	5.79	
07 22 16 00-0349	SF			3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.53	
07 22 16 00-0350	SF			3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.35	
07 22 16 00-0351	SF			4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	7.08	
07 22 16 00-0352	SF			4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	8.52	
07 22 16 00-0353	SF			5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.25	
07 22 16 00-0354	SF			5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.07	
07 22 16 00-0355	SF			6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.81	
07 22 16 00-0356	SF			6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	11.24	

07 Thermal And Moisture Protection

07 20 Thermal Protection

07 22 Roof and Deck Insulation

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0357	Hot-Mopped, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>	
07 22 16 00-0358	SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	3.98
07 22 16 00-0359	SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	6.16
07 22 16 00-0360	SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	6.71
07 22 16 00-0361	SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	8.88
07 22 16 00-0362	SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	9.44
07 22 16 00-0363	SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	11.61
07 22 16 00-0364	Hot-Mopped, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>	
07 22 16 00-0365	SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	6.89
07 22 16 00-0366	SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	9.62
07 22 16 00-0367	SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	64.38
07 22 16 00-0368	SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	15.06
07 22 16 00-0369	Mechanically Fastened Tapered Roofing Insulation <small>(07 22 16 00-0222)</small>	
	Note: Mechanically fastened to wood or steel. Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.	
07 22 16 00-0370	Mechanically Fastened, Tapered Polyisocyanurate Board <small>(07 22 16 00-0369)</small>	
	Note: Mechanically fastened to wood or steel.	
07 22 16 00-0371	Mechanically Fastened, 1/8" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0370)</small>	
07 22 16 00-0372	SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	4.06
	For 25 PSI Compressive Strength, Add	0.25
	For Mechanically Fastened To Concrete, Add	1.48
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07
07 22 16 00-0373	SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.33
	For 25 PSI Compressive Strength, Add	0.26
	For Mechanically Fastened To Concrete, Add	1.52
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22
07 22 16 00-0374	SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.81
	For 25 PSI Compressive Strength, Add	0.30
	For Mechanically Fastened To Concrete, Add	1.52
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.17
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.27
07 22 16 00-0375	SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.39
	For 25 PSI Compressive Strength, Add	0.36
	For Mechanically Fastened To Concrete, Add	1.56
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36
07 22 16 00-0376	SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.87
	For 25 PSI Compressive Strength, Add	0.41
	For Mechanically Fastened To Concrete, Add	1.56
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.28
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0377 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.21	
<i>For 25 PSI Compressive Strength, Add</i>	0.42	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0378 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.69	
<i>For 25 PSI Compressive Strength, Add</i>	0.47	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0379 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.56	
<i>For 25 PSI Compressive Strength, Add</i>	0.55	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0380 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	10.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.60	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0381 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.20	
<i>For 25 PSI Compressive Strength, Add</i>	0.60	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0382 Mechanically Fastened, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0370)</small>		
07 22 16 00-0383 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	3.82	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0384 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.57	
<i>For 25 PSI Compressive Strength, Add</i>	0.28	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0385	SF		4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.63	
			<i>For 25 PSI Compressive Strength, Add</i>	0.39	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0386	SF		5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.45	
			<i>For 25 PSI Compressive Strength, Add</i>	0.44	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0387	SF		6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.81	
			<i>For 25 PSI Compressive Strength, Add</i>	0.58	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0388	SF		7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.44	
			<i>For 25 PSI Compressive Strength, Add</i>	0.62	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0389			Mechanically Fastened, 1/2" Slope, Tapered Polyisocyanurate Board <small>(0722 16 00-0370)</small>		
07 22 16 00-0390	SF		3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.33	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0391	SF		5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.71	
			<i>For 25 PSI Compressive Strength, Add</i>	0.47	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0392	SF		7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.92	
			<i>For 25 PSI Compressive Strength, Add</i>	0.67	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0393 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	15.07	
<i>For 25 PSI Compressive Strength, Add</i>	0.86	
<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
07 22 16 00-0394 Mechanically Fastened, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0395 Mechanically Fastened, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0394)</small>		
07 22 16 00-0396 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.52	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0397 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.79	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0398 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.15	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0399 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.61	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0400 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.97	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0401 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.31	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0402 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.67	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0403	SF		5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.43	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0404	SF		6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.79	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0405	SF		6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.94	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0406			Mechanically Fastened, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0407	SF		2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0408	SF		3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.97	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0409	SF		4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.79	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0410	SF		5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.49	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0411	SF		6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.61	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0412 SF 7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.13	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0413 Mechanically Fastened, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0394)</small>		
07 22 16 00-0414 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.34	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0415 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.86	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0416 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.49	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0417 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	13.64	
<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
07 22 16 00-0418 Mechanically Fastened, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0419 Mechanically Fastened, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0420 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	3.96	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0421 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.22	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0422	SF		3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.76	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0423	SF		3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.23	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0424	SF		4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.69	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0425	SF		4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0426	SF		5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.49	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0427	SF		5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0428	SF		6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.80	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0429	SF		6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.95	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	

07 22 16 00-0430 Mechanically Fastened, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0418)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0431 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	3.73	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0432 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.45	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0433 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.46	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0434 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.26	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0435 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.57	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0436 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.18	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0437 Mechanically Fastened, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0438 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.91	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0439 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0440	SF		7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.64	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0441	SF		9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	14.56	
			<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
07 22 16 00-0442			Mechanically Fastened, Tapered Perlite Board (07 22 16 00-0369) Note: Mechanically fastened to wood or steel.		
07 22 16 00-0443			Mechanically Fastened, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0442)		
07 22 16 00-0444	SF		2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	4.28	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0445	SF		2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	5.39	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0446	SF		3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.13	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0447	SF		3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0448	SF		4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.77	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0449	SF		4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.94	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0450	SF		5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.68	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0451 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.89	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0452 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.62	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0453 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.62	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0454 Mechanically Fastened, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0455 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	3.91	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0456 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	5.76	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0457 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.41	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36	
07 22 16 00-0458 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.31	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	
07 22 16 00-0459 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.25	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0460 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.99	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0461	Mechanically Fastened, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>	
07 22 16 00-0462	SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.49
	<i>For Mechanically Fastened To Concrete, Add</i>	1.52
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27
07 22 16 00-0463	SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.04
	<i>For Mechanically Fastened To Concrete, Add</i>	1.61
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59
07 22 16 00-0464	SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	11.72
	<i>For Mechanically Fastened To Concrete, Add</i>	1.65
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17
07 22 16 00-0465	SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	14.54
	<i>For Mechanically Fastened To Concrete, Add</i>	2.07
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20
	<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17
07 22 16 00-0466	Demolish Rigid Board Roofing Insulation <small>(07 22 16)</small>	
	Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).	
07 22 16 00-0467	SF Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation	0.57
07 22 16 00-0468	SF Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation.....	0.59
07 22 16 00-0469	SF Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation	0.60
07 22 16 00-0470	SF Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation	0.63
07 22 16 00-0471	SF Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation	0.64
07 22 16 00-0472	SF Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation	0.66
07 22 16 00-0473	SF Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation	0.67
07 22 16 00-0474	SF Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation	0.69
07 22 16 00-0475	SF Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation	0.70
07 22 16 00-0476	SF Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation	0.72
07 22 16 00-0477	SF Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation.....	0.74
07 22 16 00-0478	SF Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation.....	0.76
07 22 16 00-0479	SF Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation.....	0.77
07 24	Exterior Insulation and Finish Systems <small>(07 20)</small>	
07 24 13	Polymer-Based Exterior Insulation and Finish System <small>(07 24)</small>	
07 24 13 00-0001	Exterior Insulation Finishing System (EIFS) <small>(07 24 13)</small>	
07 24 13 00-0002	Insulation For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>	
07 24 13 00-0003	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.27
	<i>For Up To 100, Add</i>	0.83
	<i>For >100 To 500, Add</i>	0.42
	<i>For >5,000, Deduct</i>	-0.17
	<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.35
	<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	1.99
07 24 13 00-0004	SF 1-1/2" Thick, R5.78, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.56
	<i>For Up To 100, Add</i>	0.85
	<i>For >100 To 500, Add</i>	0.42
	<i>For >5,000, Deduct</i>	-0.17
	<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.37
	<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.01
07 24 13 00-0005	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.83
	<i>For Up To 100, Add</i>	0.86
	<i>For >100 To 500, Add</i>	0.43
	<i>For >5,000, Deduct</i>	-0.17
	<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.51
	<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0006 SF 2-1/2" Thick, R9.63, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.12	
<i>For Up To 100, Add</i>	0.87	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.17	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.58	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.23	
07 24 13 00-0007 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.39	
<i>For Up To 100, Add</i>	0.88	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.58	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.23	
07 24 13 00-0008 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.92	
<i>For Up To 100, Add</i>	0.89	
<i>For >100 To 500, Add</i>	0.45	
<i>For >5,000, Deduct</i>	-0.18	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.76	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.37	
07 24 13 00-0009 Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
Note: Includes applying a layer of base coat to the insulation board and fully embedding the reinforcing fabric in the wet base coat.		
07 24 13 00-0010 SF 4.3 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit S-Mesh), Embedded In A Layer Of Base Coat	4.95	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	
07 24 13 00-0011 SF 6.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit SP-Mesh), Embedded In A Layer Of Base Coat	5.43	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	
07 24 13 00-0012 SF 15.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 15), Embedded In A Layer Of Base Coat	6.71	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	
07 24 13 00-0013 SF 20.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 20), Embedded In A Layer Of Base Coat	7.09	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	
07 24 13 00-0014 Base Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
07 24 13 00-0015 SF Polymer-Based, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis® DM).....	2.41	
<i>For Up To 100, Add</i>	0.83	
<i>For >100 To 500, Add</i>	0.42	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0016 SF Acrylic-Modified, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis®).....	2.76	
<i>For Up To 100, Add</i>	0.83	
<i>For >100 To 500, Add</i>	0.42	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0017 SF Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®)	4.67	
<i>For Up To 100, Add</i>	0.83	
<i>For >100 To 500, Add</i>	0.42	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0018 SF Hydrostatic Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®)	6.17	
<i>For Up To 100, Add</i>	0.83	
<i>For >100 To 500, Add</i>	0.42	
<i>For >5,000, Deduct</i>	-0.17	
07 24 13 00-0019 Finish Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
Note: Includes all standard manufacturers' colors.		
07 24 13 00-0020 SF 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.19	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	
07 24 13 00-0021 SF 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.26	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 500, Add</i>	0.84	
<i>For >5,000, Deduct</i>	-0.33	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 24 Exterior Insulation and Finish Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0022	SF		Lightweight Elastic, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish)	4.82	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0023	SF		Lightweight Elastic, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	5.32	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0024	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	4.82	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0025	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	5.32	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0026	SF		Flexible Elastomeric, 100% Acrylic-Based Smooth Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic® Smooth)	4.35	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0027	SF		Flexible Elastomeric, 100% Acrylic-Based Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic®).....	4.86	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0028	SF		100% Acrylic-Based Finish With Multi-Colored Quartz Aggregates, Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Ameristone™)	9.27	
			For Up To 100, Add	1.67	
			For >100 To 500, Add	0.84	
			For >5,000, Deduct	-0.33	
07 24 13 00-0029			Primer And Sealers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0030	SF		100% Acrylic-Based Primer/Adhesion Promoter For Exterior Insulation Finishing Systems (EIFS) (Dryvit Prymit®)	1.25	
			For Up To 100, Add	0.47	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.09	
07 24 13 00-0031	SF		100% Acrylic Emulsion Primer/Sealer For Exterior Insulation Finishing Systems (EIFS) (Dryvit SealClear™).....	1.28	
			For Up To 100, Add	0.47	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.09	
07 24 13 00-0032			Air/Water/Vapor Barriers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0033	SF		Smooth, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	1.67	
			For Up To 100, Add	0.47	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.09	
07 24 13 00-0034	SF		Texture, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	2.02	
			For Up To 100, Add	0.47	
			For >100 To 500, Add	0.24	
			For >5,000, Deduct	-0.09	
07 24 13 00-0035			Drainage Accessories For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0036	SF		1/8" Thick, Flexible Polyamide Drainage Mat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Drainage Mat)	2.48	
			For Up To 100, Add	0.52	
			For >100 To 500, Add	0.26	
			For >5,000, Deduct	-0.10	
07 24 13 00-0037			Starter Tracks For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0038	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP)	3.54	
07 24 13 00-0039	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	3.81	
07 24 13 00-0040	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.12	
07 24 13 00-0041	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.77	
07 24 13 00-0042	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	3.81	
07 24 13 00-0043	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.12	
07 24 13 00-0044	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.43	
07 24 13 00-0045	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	5.14	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 24 13 00-0046	Demolish Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
07 24 13 00-0047	SF Demolish Exterior Insulation Finishing Systems (EIFS).....	3.13	
	Note: Includes demolition of all finish coats, base coats, reinforcing layers and insulation layers down to the substrate. Excludes demolition of sheathing.		
	<i>For Up To 100, Add</i>	1.57	
	<i>For >100 To 500, Add</i>	0.78	
	<i>For >5,000, Deduct</i>	-0.31	

07 25 Weather Barriers (07)

07 26 Vapor Retarders (07 25)

07 26 13 Above-Grade Vapor Retarders (07 26)

07 26 13 00-0001	CSF Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B).....	30.24	
07 26 13 00-0002	CSF Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex).....	28.43	
07 26 13 00-0003	CSF 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute).....	34.24	
07 26 13 00-0004	CSF Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute).....	42.78	
07 26 13 00-0005	CSF Regular Weight Red Rosin Sized Sheathing.....	27.71	
07 26 13 00-0006	CLF 6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....	90.01	
07 26 13 00-0007	CLF 4" Wide Self Adhering Butyl Sealing Tape.....	130.04	
07 26 13 00-0008	CLF 6" Wide Self Adhesive Butyl Sealing Tape.....	183.74	
07 26 13 00-0009	CLF 9" Wide Self Adhesive Butyl Sealing Tape.....	250.36	
07 26 13 00-0010	CSF Building Wrap (Tyvek).....	75.97	

07 27 Air Barriers (07 25)

07 27 23 Board Product Air Barriers (07 27)

07 27 23 00-0001 Barriers For Plenums (07 27 23)

07 27 23 00-0002	SF 0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF.....	11.99	3.51
	<i>For Up To 50, Add</i>	4.55	
	<i>For >50 To 200, Add</i>	2.58	
	<i>For >200 To 500, Add</i>	0.94	
	<i>For >2,500, Deduct</i>	-0.60	
07 27 23 00-0003	SF 0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF.....	13.00	3.51
	<i>For Up To 50, Add</i>	4.97	
	<i>For >50 To 200, Add</i>	2.81	
	<i>For >200 To 500, Add</i>	1.03	
	<i>For >2,500, Deduct</i>	-0.65	
07 27 23 00-0004	SF Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....	4.87	2.34
	<i>For Up To 50, Add</i>	2.43	
	<i>For >50 To 200, Add</i>	1.34	
	<i>For >200 To 500, Add</i>	0.46	
	<i>For >2,500, Deduct</i>	-0.24	
07 27 23 00-0005	SF Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick.....	8.85	3.51
	<i>For Up To 50, Add</i>	4.35	
	<i>For >50 To 200, Add</i>	2.40	
	<i>For >200 To 500, Add</i>	0.82	
	<i>For >2,500, Deduct</i>	-0.44	
07 27 23 00-0006	SF Aluminum Mesh Barrier For Plenum Kraft Paper Backed.....	6.41	2.34
	<i>For Up To 50, Add</i>	2.67	
	<i>For >50 To 200, Add</i>	1.49	
	<i>For >200 To 500, Add</i>	0.53	
	<i>For >2,500, Deduct</i>	-0.32	
07 27 23 00-0007	SF 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF.....	8.97	2.34
	<i>For Up To 50, Add</i>	2.91	
	<i>For >50 To 200, Add</i>	1.68	
	<i>For >200 To 500, Add</i>	0.64	
	<i>For >2,500, Deduct</i>	-0.45	

07 30 Steep Slope Roofing (07)

Note: Includes starter strips and manufacturer's product specific warranties.

07 31 Shingles and Shakes (07 30)

07 31 13 Asphalt Shingles (07 31)

07 31 13 13 Fiberglass-Reinforced Asphalt Shingles (07 31 13)

07 31 13 13-0001 Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (07 31 13 13)

Note: Excludes underlayment, drip edges, and ridge vent/shingles.

07 31 13 13-0002	SQ 200 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed CT 20).....	266.88	188.95
	<i>For >35 To 75, Deduct</i>	-9.50	
	<i>For >75 To 100, Deduct</i>	-15.70	
	<i>For >100 To 200, Deduct</i>	-23.80	
	<i>For >200, Deduct</i>	-36.19	
	<i>For Steep Roof, Over 7 To 12, Add</i>	54.99	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0003 SQ 220 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 25).....	279.91	198.44
For >35 To 75, Deduct	-9.95	
For >75 To 100, Deduct	-16.45	
For >100 To 200, Deduct	-24.94	
For >200, Deduct	-37.94	
For Steep Roof, Over 7 To 12, Add	57.73	
07 31 13 13-0004 SQ 230 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 30).....	320.58	208.33
For >35 To 75, Deduct	-13.11	
For >75 To 100, Deduct	-20.47	
For >100 To 200, Deduct	-30.45	
For >200, Deduct	-45.17	
For Steep Roof, Over 7 To 12, Add	60.63	
07 31 13 13-0005 Architectural Fiberglass Reinforced, Asphalt Composition Shingle <small>(07 31 13 13)</small>		
Note: Excludes underlayment, drip edges, and ridge vent/shingles.		
07 31 13 13-0006 SQ 245 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark).....	333.71	241.22
For >35 To 75, Deduct	-11.45	
For >75 To 100, Deduct	-19.22	
For >100 To 200, Deduct	-29.28	
For >200, Deduct	-44.82	
For Steep Roof, Over 7 To 12, Add	70.16	
07 31 13 13-0007 SQ 240 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Highland Slate).....	349.22	229.67
For >35 To 75, Deduct	-14.04	
For >75 To 100, Deduct	-22.07	
For >100 To 200, Deduct	-32.90	
For >200, Deduct	-48.96	
For Steep Roof, Over 7 To 12, Add	66.83	
07 31 13 13-0008 SQ 265 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Plus).....	379.00	253.28
For >35 To 75, Deduct	-14.87	
For >75 To 100, Deduct	-23.60	
For >100 To 200, Deduct	-35.31	
For >200, Deduct	-52.77	
For Steep Roof, Over 7 To 12, Add	73.69	
07 31 13 13-0009 SQ 235 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Hatteras).....	361.89	218.74
For >35 To 75, Deduct	-16.30	
For >75 To 100, Deduct	-24.54	
For >100 To 200, Deduct	-36.03	
For >200, Deduct	-52.49	
For Steep Roof, Over 7 To 12, Add	63.63	
07 31 13 13-0010 SQ 300 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Premium).....	409.76	265.95
For >35 To 75, Deduct	-16.80	
For >75 To 100, Deduct	-26.21	
For >100 To 200, Deduct	-38.97	
For >200, Deduct	-57.78	
For Steep Roof, Over 7 To 12, Add	77.35	
07 31 13 13-0011 SQ 300 LB/SQ, 5" Exposure, Random Laminated Tabs, One Piece, Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Independence).....	434.39	265.95
For >35 To 75, Deduct	-19.27	
For >75 To 100, Deduct	-29.16	
For >100 To 200, Deduct	-42.91	
For >200, Deduct	-62.71	
For Steep Roof, Over 7 To 12, Add	77.35	
07 31 13 13-0012 SQ 355 LB/SQ, 4" Exposure, Sculpted Edge, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake).....	474.84	293.17
For >35 To 75, Deduct	-20.83	
For >75 To 100, Deduct	-31.66	
For >100 To 200, Deduct	-46.65	
For >200, Deduct	-68.31	
For Steep Roof, Over 7 To 12, Add	85.31	
07 31 13 13-0013 SQ 340 LB/SQ, 5" Exposure, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark TL).....	469.07	279.25
For >35 To 75, Deduct	-21.53	
For >75 To 100, Deduct	-32.18	
For >100 To 200, Deduct	-47.13	
For >200, Deduct	-68.44	
For Steep Roof, Over 7 To 12, Add	81.21	
07 31 13 13-0014 SQ 300 LB/SQ, 5" Exposure, Reflective Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Solaris).....	464.68	265.95
For >35 To 75, Deduct	-22.30	
For >75 To 100, Deduct	-32.80	
For >100 To 200, Deduct	-47.76	
For >200, Deduct	-68.76	
For Steep Roof, Over 7 To 12, Add	77.35	
07 31 13 13-0015 SQ 355 LB/SQ, 8" Exposure, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Centennial Slate).....	541.14	293.17
For >35 To 75, Deduct	-27.46	
For >75 To 100, Deduct	-39.61	
For >100 To 200, Deduct	-57.26	
For >200, Deduct	-81.57	
For Steep Roof, Over 7 To 12, Add	85.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0016 SQ 355 LB/SQ, 8" Exposure, Scalloped Cut, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Carriage House).....	558.41	293.17
<i>For >35 To 75, Deduct</i>	-29.18	
<i>For >75 To 100, Deduct</i>	-41.68	
<i>For >100 To 200, Deduct</i>	-60.02	
<i>For >200, Deduct</i>	-85.02	
<i>For Steep Roof, Over 7 To 12, Add</i>	85.31	
07 31 13 13-0017 SQ 480 LB/SQ, 4" Exposure, Sculpted Edge, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake TL).....	619.97	323.27
<i>For >35 To 75, Deduct</i>	-32.61	
<i>For >75 To 100, Deduct</i>	-46.48	
<i>For >100 To 200, Deduct</i>	-66.87	
<i>For >200, Deduct</i>	-94.61	
<i>For Steep Roof, Over 7 To 12, Add</i>	94.04	
07 31 13 13-0018 SQ 425 LB/SQ, 8" Exposure, Random Laminated Tabs, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed GrandManor).....	608.94	307.81
<i>For >35 To 75, Deduct</i>	-32.91	
<i>For >75 To 100, Deduct</i>	-46.49	
<i>For >100 To 200, Deduct</i>	-66.64	
<i>For >200, Deduct</i>	-93.80	
<i>For Steep Roof, Over 7 To 12, Add</i>	89.56	
07 31 13 13-0019 Asphalt Shingle Accessories (07 31 13 13)		
07 31 13 13-0020 LF Hip And Ridge Roll Vent	7.45	1.13
Note: Excludes shingles.		
07 31 13 13-0021 LF Three Tab Hip And Ridge Shingles	3.81	2.81
07 31 13 13-0022 LF Architectural Hip And Ridge Shingles.....	4.56	3.13
07 31 13 13-0023 SQ Demolish Each Additional Layer Of Shingles.....	87.62	
07 31 16 Metal Shingles (07 31)		
07 31 16 00-0001 Aluminum Shingles (07 31 16)		
07 31 16 00-0002 SQ Aluminum Shingles, Mill Finish, 0.020" Thick	731.04	179.24
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0003 SQ Aluminum Shingles, Mill Finish, 0.030" Thick	991.16	195.90
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0004 LF Aluminum Shingles, Ridge Cap, 0.020" Thick	13.27	2.58
07 31 16 00-0005 LF Aluminum Shingles, Ridge Cap, 0.030" Thick	13.88	2.58
07 31 16 00-0006 LF Aluminum Shingles, Valley Section, 0.020" Thick.....	8.73	2.58
07 31 16 00-0007 LF Aluminum Shingles, Valley Section, 0.030" Thick.....	9.94	2.58
07 31 16 00-0008 Galvanized Steel Shingles (07 31 16)		
07 31 16 00-0009 SQ 24 Gauge, 0.0276" Thickness, Galvanized Steel Shingles.....	478.24	161.28
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-6.23	
<i>For >75 To 100, Deduct</i>	-18.96	
<i>For >100 To 200, Deduct</i>	-33.25	
<i>For >200, Deduct</i>	-45.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	103.24	
07 31 16 00-0010 SQ 26 Gauge, 0.0217" Thickness, Galvanized Steel Shingles.....	462.68	159.99
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-5.71	
<i>For >75 To 100, Deduct</i>	-17.99	
<i>For >100 To 200, Deduct</i>	-31.70	
<i>For >200, Deduct</i>	-43.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	102.36	
07 31 16 00-0011 SQ 24 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	705.14	161.28
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-15.30	
<i>For >75 To 100, Deduct</i>	-34.84	
<i>For >100 To 200, Deduct</i>	-58.21	
<i>For >200, Deduct</i>	-77.75	
<i>For Steep Roof, Over 7 To 12, Add</i>	103.24	
07 31 16 00-0012 SQ 26 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	655.24	159.99
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-13.41	
<i>For >75 To 100, Deduct</i>	-31.47	
<i>For >100 To 200, Deduct</i>	-52.88	
<i>For >200, Deduct</i>	-70.94	
<i>For Steep Roof, Over 7 To 12, Add</i>	102.36	
07 31 16 00-0013 LF Galvanized Steel Shingles, Ridge Or Valley.....	7.49	2.15
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-0.13	
<i>For >75 To 100, Deduct</i>	-0.33	
<i>For >100 To 200, Deduct</i>	-0.57	
<i>For >200, Deduct</i>	-0.77	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.35	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 31 26 Slate Shingles** (07 31)

Note: Includes 30 LB felt and fasteners.

07 31 26 00-0001 Shingles Including 30 LB Felt And Nails <small>(07 31 26)</small>			
07 31 26 00-0002	SQ Slate Shingles, Buckingham, Virginia Black, 3/16" Thick.....	1,257.48	275.11
	For >50 To 75, Deduct	-25.85	
	For >75 To 100, Deduct	-60.52	
	For >100 To 200, Deduct	-101.64	
	For >200, Deduct	-136.31	
	For Graduated Shapes, Add	96.93	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0003	SQ Slate Shingles, Buckingham, Virginia Black, 1/4" Thick.....	1,434.49	275.11
	For >50 To 75, Deduct	-32.93	
	For >75 To 100, Deduct	-72.91	
	For >100 To 200, Deduct	-121.12	
	For >200, Deduct	-161.09	
	For Graduated Shapes, Add	123.48	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0004	SQ Slate Shingles, Penn Black Bangor	1,381.39	275.11
	For >50 To 75, Deduct	-30.80	
	For >75 To 100, Deduct	-69.19	
	For >100 To 200, Deduct	-115.27	
	For >200, Deduct	-153.66	
	For Graduated Shapes, Add	115.51	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0005	SQ Slate Shingles, Vermont, Unfading Colors, Green.....	1,399.09	275.11
	For >50 To 75, Deduct	-31.51	
	For >75 To 100, Deduct	-70.43	
	For >100 To 200, Deduct	-117.22	
	For >200, Deduct	-156.14	
	For Graduated Shapes, Add	118.17	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0006	SQ Slate Shingles, Vermont, Unfading Colors, Semi-Weathered, Green/Gray	1,469.89	275.11
	For >50 To 75, Deduct	-34.34	
	For >75 To 100, Deduct	-75.38	
	For >100 To 200, Deduct	-125.01	
	For >200, Deduct	-166.05	
	For Graduated Shapes, Add	128.79	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0007	SQ Slate Shingles, Vermont, Unfading Color, Purple	1,381.39	275.11
	For >50 To 75, Deduct	-30.80	
	For >75 To 100, Deduct	-69.19	
	For >100 To 200, Deduct	-115.27	
	For >200, Deduct	-153.66	
	For Graduated Shapes, Add	115.51	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0008	SQ Slate Shingles, Vermont, Unfading Color, Black Or Gray	1,328.29	275.11
	For >50 To 75, Deduct	-28.68	
	For >75 To 100, Deduct	-65.47	
	For >100 To 200, Deduct	-109.43	
	For >200, Deduct	-146.23	
	For Graduated Shapes, Add	107.55	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0009	SQ Slate Shingles, Vermont, Unfading Color, Red	2,434.36	275.11
	For >50 To 75, Deduct	-72.92	
	For >75 To 100, Deduct	-142.90	
	For >100 To 200, Deduct	-231.10	
	For >200, Deduct	-301.08	
	For Graduated Shapes, Add	273.46	
	For Steep Roof, Over 7 To 12, Add	195.62	
07 31 26 00-0010	SQ Slate Shingles, Vermont, Unfading Color, Variegated Purple	1,381.39	275.11
	For >50 To 75, Deduct	-30.80	
	For >75 To 100, Deduct	-69.19	
	For >100 To 200, Deduct	-115.27	
	For >200, Deduct	-153.66	
	For Graduated Shapes, Add	115.51	
	For Steep Roof, Over 7 To 12, Add	195.62	

07 31 29 Wood Shingles and Shakes (07 31)**07 31 29 13 Wood Shingles** (07 31 29)

07 31 29 13-0001 #1 Grade, Red Cedar Shingles <small>(07 31 29 13)</small>			
07 31 29 13-0002 #1 Grade, Red Cedar Shingles Installed On Roofs <small>(07 31 29 13-0001)</small>			
07 31 29 13-0003	SQ 3-3/4" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	852.76	234.15
	For Steep Roof, Over 7 To 12, Add	149.86	
	For Pressure-Impregnated Treated (Preservative), Add	57.67	
07 31 29 13-0004	SQ 5" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	620.34	175.61
	For Steep Roof, Over 7 To 12, Add	112.39	
	For Pressure-Impregnated Treated (Preservative), Add	40.37	
07 31 29 13-0005	SQ 4-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	753.66	199.03
	For Steep Roof, Over 7 To 12, Add	127.38	
	For Pressure-Impregnated Treated (Preservative), Add	53.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 13-0006 SQ 5-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	617.62 104.90 43.47	163.91
07 31 29 13-0007 SQ 5-3/4" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	794.68 99.28 72.66	155.13
07 31 29 13-0008 SQ 7-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	619.48 84.29 53.41	131.71
07 31 29 13-0009 #1 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0001)		
07 31 29 13-0010 SQ 7" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	613.69 28.83	210.74
07 31 29 13-0011 SQ 8" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	597.93 29.98	199.03
07 31 29 13-0012 SQ 10-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	599.70 38.15	172.69
07 31 29 13-0013 #2 Grade, Red Cedar Shingles (07 31 29 13)		
07 31 29 13-0014 #2 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0013)		
07 31 29 13-0015 SQ 3-1/2" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	802.23 157.35 46.58	245.86
07 31 29 13-0016 SQ 4" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	716.59 142.36 40.76	222.44
07 31 29 13-0017 SQ 4" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	758.97 142.36 47.11	222.44
07 31 29 13-0018 SQ 4-1/2" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	677.46 127.38 41.91	199.03
07 31 29 13-0019 SQ 5-3/4" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	648.22 99.28 50.70	155.13
07 31 29 13-0020 SQ 6-1/2" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	532.52 86.17 39.49	134.64
07 31 29 13-0021 #2 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0013)		
07 31 29 13-0022 SQ 6" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	600.15 23.29	222.44
07 31 29 13-0023 SQ 7" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	578.51 23.56	210.74
07 31 29 13-0024 SQ 9" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	552.08 26.62	187.33
07 31 29 16 Wood Shakes (07 31 29)		
07 31 29 16-0001 #1 Grade, Red Cedar Shakes (07 31 29 16)		
07 31 29 16-0002 #1 Grade, Red Cedar Shakes Installed On Roofs (07 31 29 16-0001)		
07 31 29 16-0003 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	628.91 121.76 37.26	190.25
07 31 29 16-0004 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	711.71 121.76 49.68	190.25
07 31 29 16-0005 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	651.81 99.28 51.23	155.13
07 31 29 16-0006 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative), Add</i>	687.01 99.28 56.51	155.13
07 31 29 16-0007 #1 Grade, Red Cedar Shakes Installed On Walls (07 31 29 16-0001)		
07 31 29 16-0008 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	658.18 37.26	204.88
07 31 29 16-0009 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	740.98 49.68	204.88
07 31 29 16-0010 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	692.79 51.23	175.61
07 31 29 16-0011 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	727.99 56.51	175.61
07 31 29 19 Wood Shingles And Shakes Cap (07 31 29)		

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 19-0001			Wood Hip And Ridge Cap For Wood Shingles Or Shakes (07 31 29 19)		
07 31 29 19-0002	LF		Red Cedar Hip Or Ridge Cap For Wood Shingles Or Shakes.....	10.11	1.52
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.14	
			<i>For Pressure-Impregnated Treated (Preservative) Ridge, Add</i>	0.98	
07 31 33			Composite Rubber Shingles (07 31)		
07 31 33 00-0001	SQ		Class C Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure	1,158.75	240.20
			Note: Gray or black.		
			<i>For Purple Or Green Color, Add</i>	108.55	
			<i>For Brown Or Red Color, Add</i>	278.15	
			<i>For Steep Roof, Over 7 To 12, Add</i>	153.71	
			<i>For >50 To 75, Deduct</i>	-16.96	
			<i>For >75 To 100, Deduct</i>	-45.93	
			<i>For >100 To 200, Deduct</i>	-74.90	
			<i>For >200, Deduct</i>	-115.88	
			<i>For 6.5" Exposure, Add</i>	80.48	
			<i>For 6.0" Exposure, Add</i>	160.96	
07 31 33 00-0002	SQ		Class A Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure.....	1,611.02	240.20
			Note: Fire resistant. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	169.60	
			<i>For Steep Roof, Over 7 To 12, Add</i>	153.71	
			<i>For >50 To 75, Deduct</i>	-28.27	
			<i>For >75 To 100, Deduct</i>	-68.54	
			<i>For >100 To 200, Deduct</i>	-108.82	
			<i>For >200, Deduct</i>	-161.10	
			<i>For 6.5" Exposure, Add</i>	112.79	
			<i>For 6.0" Exposure, Add</i>	225.57	
07 31 33 00-0003	SQ		Class C Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure	1,344.98	240.20
			Note: Beaver tail, chisel point or beveled edges. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	311.27	
			<i>For Steep Roof, Over 7 To 12, Add</i>	153.71	
			<i>For >50 To 75, Deduct</i>	-21.62	
			<i>For >75 To 100, Deduct</i>	-55.24	
			<i>For >100 To 200, Deduct</i>	-88.87	
			<i>For >200, Deduct</i>	-134.50	
			<i>For 6.5" Exposure, Add</i>	93.78	
			<i>For 6.0" Exposure, Add</i>	187.56	
07 31 33 00-0004	SQ		Class A Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure	1,704.13	240.20
			Note: Fire resistant. Beaver tail, chisel point or beveled edges. Gray or black.		
			<i>For Purple, Green, Brown Or Red, Add</i>	134.62	
			<i>For Steep Roof, Over 7 To 12, Add</i>	153.71	
			<i>For >50 To 75, Deduct</i>	-30.59	
			<i>For >75 To 100, Deduct</i>	-73.20	
			<i>For >100 To 200, Deduct</i>	-115.80	
			<i>For >200, Deduct</i>	-170.41	
			<i>For 6.5" Exposure, Add</i>	119.44	
			<i>For 6.0" Exposure, Add</i>	238.87	
07 31 33 00-0005	LF		Hip Or Ridge Polymeric Rubber Slate Shingle.....	11.32	1.62
			Note: Beveled or pointed edges, gray or black.		
07 32			Roof Tiles (07 30)		
07 32 13			Clay Roof Tiles (07 32)		
			Note: 8-1/4" x 11" exposure. Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.		
07 32 13 00-0001			Clay Roofing Tile 8-1/4" x 11" Exposure (07 32 13)		
			Note: Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.		
07 32 13 00-0002	SQ		Lanai Or Classic Tile, 158 Piece Per SQ	1,311.95	260.90
			<i>For >25 To 50, Deduct</i>	-47.40	
			<i>For >50 To 75, Deduct</i>	-92.05	
			<i>For >75 To 100, Deduct</i>	-128.80	
			<i>For >100 To 200, Deduct</i>	-157.65	
			<i>For >200, Deduct</i>	-178.60	
			<i>For 20 Year Warranty, Add</i>	55.31	
07 32 13 00-0003	SQ		Americana (Most Colors) Tile Roofing, 158 Piece Per SQ.....	1,566.43	260.90
			<i>For >25 To 50, Deduct</i>	-62.67	
			<i>For >50 To 75, Deduct</i>	-117.50	
			<i>For >75 To 100, Deduct</i>	-161.89	
			<i>For >100 To 200, Deduct</i>	-195.82	
			<i>For >200, Deduct</i>	-219.32	
			<i>For 20 Year Warranty, Add</i>	73.12	
07 32 13 00-0004	SQ		Americana (Green, Gray Or Brown) Tile, 158 Piece Per SQ	1,566.43	260.90
			<i>For >25 To 50, Deduct</i>	-62.67	
			<i>For >50 To 75, Deduct</i>	-117.50	
			<i>For >75 To 100, Deduct</i>	-161.89	
			<i>For >100 To 200, Deduct</i>	-195.82	
			<i>For >200, Deduct</i>	-219.32	
			<i>For 20 Year Warranty, Add</i>	73.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0005 SQ Americana (Blue) Tile, 158 Piece Per SQ.....	1,782.35	260.90
<i>For >25 To 50, Deduct</i>	-75.63	
<i>For >50 To 75, Deduct</i>	-139.09	
<i>For >75 To 100, Deduct</i>	-189.96	
<i>For >100 To 200, Deduct</i>	-228.21	
<i>For >200, Deduct</i>	-253.86	
<i>For 20 Year Warranty, Add</i>	88.23	
07 32 13 00-0006 SQ French Tile Roofing, Red, 133 Piece Per SQ	1,564.90	319.00
<i>For >25 To 50, Deduct</i>	-55.61	
<i>For >50 To 75, Deduct</i>	-108.64	
<i>For >75 To 100, Deduct</i>	-152.40	
<i>For >100 To 200, Deduct</i>	-186.89	
<i>For >200, Deduct</i>	-212.10	
<i>For 20 Year Warranty, Add</i>	64.88	
07 32 13 00-0007 SQ French Tile Roofing, Blue Or Green, 133 Piece Per SQ	1,944.74	319.00
<i>For >25 To 50, Deduct</i>	-78.41	
<i>For >50 To 75, Deduct</i>	-146.62	
<i>For >75 To 100, Deduct</i>	-201.78	
<i>For >100 To 200, Deduct</i>	-243.86	
<i>For >200, Deduct</i>	-272.88	
<i>For 20 Year Warranty, Add</i>	91.47	
07 32 13 00-0008 SQ Norman Tile Roofing, 317 Piece Per SQ	2,483.37	430.35
<i>For >25 To 50, Deduct</i>	-97.38	
<i>For >50 To 75, Deduct</i>	-183.80	
<i>For >75 To 100, Deduct</i>	-254.00	
<i>For >100 To 200, Deduct</i>	-307.97	
<i>For >200, Deduct</i>	-345.71	
<i>For 20 Year Warranty, Add</i>	113.61	
07 32 13 00-0009 SQ Williamsburg Tile Roofing, Aged Cedar, 158 Piece Per SQ	1,374.85	319.00
<i>For >25 To 50, Deduct</i>	-44.21	
<i>For >50 To 75, Deduct</i>	-89.64	
<i>For >75 To 100, Deduct</i>	-127.69	
<i>For >100 To 200, Deduct</i>	-158.38	
<i>For >200, Deduct</i>	-181.70	
<i>For 20 Year Warranty, Add</i>	51.58	
07 32 13 00-0010 SQ Williamsburg Tile Roofing, Gray Or Green, 158 Piece Per SQ.....	1,682.55	319.00
<i>For >25 To 50, Deduct</i>	-62.67	
<i>For >50 To 75, Deduct</i>	-120.41	
<i>For >75 To 100, Deduct</i>	-167.69	
<i>For >100 To 200, Deduct</i>	-204.53	
<i>For >200, Deduct</i>	-230.93	
<i>For 20 Year Warranty, Add</i>	73.12	
07 32 13 00-0011 SQ Spanish Tile Roofing, Red, 171 Piece Per SQ.....	1,175.30	238.85
<i>For >25 To 50, Deduct</i>	-41.85	
<i>For >50 To 75, Deduct</i>	-81.70	
<i>For >75 To 100, Deduct</i>	-114.57	
<i>For >100 To 200, Deduct</i>	-140.46	
<i>For >200, Deduct</i>	-159.38	
<i>For 20 Year Warranty, Add</i>	48.83	
07 32 13 00-0012 SQ Spanish Tile Roofing, Blend, 171 Piece Per SQ	1,506.89	238.85
<i>For >25 To 50, Deduct</i>	-61.75	
<i>For >50 To 75, Deduct</i>	-114.86	
<i>For >75 To 100, Deduct</i>	-157.68	
<i>For >100 To 200, Deduct</i>	-190.20	
<i>For >200, Deduct</i>	-212.44	
<i>For 20 Year Warranty, Add</i>	72.04	
07 32 13 00-0013 SQ Spanish Tile Roofing, Glazed White, 171 Piece Per SQ.....	1,792.22	238.85
<i>For >25 To 50, Deduct</i>	-78.87	
<i>For >50 To 75, Deduct</i>	-143.39	
<i>For >75 To 100, Deduct</i>	-194.77	
<i>For >100 To 200, Deduct</i>	-233.00	
<i>For >200, Deduct</i>	-258.09	
<i>For 20 Year Warranty, Add</i>	92.01	
07 32 13 00-0014 SQ Two Piece Mission Tile Roofing, 192 Piece Per SQ	2,178.95	374.41
<i>For >25 To 50, Deduct</i>	-85.81	
<i>For >50 To 75, Deduct</i>	-161.73	
<i>For >75 To 100, Deduct</i>	-223.36	
<i>For >100 To 200, Deduct</i>	-270.68	
<i>For >200, Deduct</i>	-303.70	
<i>For 20 Year Warranty, Add</i>	100.11	
07 32 13 00-0015 SQ One Piece Mission Tile Roofing, 75 Piece Per SQ	980.36	260.90
<i>For >25 To 50, Deduct</i>	-27.51	
<i>For >50 To 75, Deduct</i>	-58.90	
<i>For >75 To 100, Deduct</i>	-85.70	
<i>For >100 To 200, Deduct</i>	-107.91	
<i>For >200, Deduct</i>	-125.55	
<i>For 20 Year Warranty, Add</i>	32.09	
07 32 13 00-0016 SQ One Piece Mission Tile Roofing, 134 Piece Per SQ	1,311.40	374.41
<i>For >25 To 50, Deduct</i>	-33.76	
<i>For >50 To 75, Deduct</i>	-74.98	
<i>For >75 To 100, Deduct</i>	-110.58	
<i>For >100 To 200, Deduct</i>	-140.55	
<i>For >200, Deduct</i>	-164.90	
<i>For 20 Year Warranty, Add</i>	39.38	

07 32 16 Concrete Roof Tiles (07 32)

07 Thermal And Moisture Protection

07 30 Steep Slope Roofing

07 32 Roof Tiles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 16 00-0001			Corrugated Tiles And Shakes Nailed To Wood (07 32 16) Note: Includes 30 lb felt underlayment.		
07 32 16 00-0002	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Earthtone Colors, Corrugated	1,143.13	395.50
			For >50 To 75, Deduct	-14.08	
			For >75 To 100, Deduct	-44.42	
			For >100 To 200, Deduct	-78.28	
			For >200, Deduct	-108.62	
			For Steep Roof, Over 7 To 12, Add	253.15	
07 32 16 00-0003	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Blues, Corrugated	1,504.66	395.50
			For >50 To 75, Deduct	-28.54	
			For >75 To 100, Deduct	-69.73	
			For >100 To 200, Deduct	-118.05	
			For >200, Deduct	-159.23	
			For Steep Roof, Over 7 To 12, Add	253.15	
07 32 16 00-0004	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Greens Corrugated	1,215.43	395.50
			For >50 To 75, Deduct	-16.97	
			For >75 To 100, Deduct	-49.48	
			For >100 To 200, Deduct	-86.23	
			For >200, Deduct	-118.74	
			For Steep Roof, Over 7 To 12, Add	253.15	
07 32 16 00-0005	SQ		13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Colors, Shakes	1,150.24	353.86
			For >50 To 75, Deduct	-17.70	
			For >75 To 100, Deduct	-48.66	
			For >100 To 200, Deduct	-84.06	
			For >200, Deduct	-115.02	
			For Steep Roof, Over 7 To 12, Add	226.51	
07 32 16 00-0006			Accessories (07 32 16)		
07 32 16 00-0007	EA		Ridge And Hip, 10" X 16-1/2", 8 LB Each For Concrete Tile Roof	6.11	
07 32 16 00-0008	EA		Rake, 6-1/2" X 16-3/4", 9 LB Each For Concrete Tile Roof	4.02	
07 32 16 00-0009	EA		Mansard Hip, 10" X 16-1/2", 9.2 LB Each For Concrete Tile Roof	6.07	
07 32 16 00-0010	EA		Hip Starter, 10" X 16-1/2", 10.5 LB Each For Concrete Tile Roof	6.95	
07 32 16 00-0011	EA		3 Or 4 Way Apex, 10" Each Side, 11.5 LB Each For Concrete Tile Roof	7.23	
07 34			Roofing Underlayment (07 30)		
07 34 00 00-0001			Mechanically Fastened, Roofing Underlayment (07 34) Note: Standard slope.		
07 34 00 00-0002	SQ		15 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	35.32	7.74
			For Steep Roof, Over 7 To 12, Add	4.96	
			For >50 To 75, Deduct	-0.79	
			For >75 To 100, Deduct	-1.78	
			For >100 To 200, Deduct	-2.96	
			For >200, Deduct	-4.33	
07 34 00 00-0003	SQ		30 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	54.45	10.65
			For Steep Roof, Over 7 To 12, Add	6.81	
			For >50 To 75, Deduct	-1.33	
			For >75 To 100, Deduct	-2.85	
			For >100 To 200, Deduct	-4.71	
			For >200, Deduct	-6.77	
07 34 00 00-0004	SQ		30 LB, Asphalt Saturated Organic Felt Shake Underlayment, Mechanically Fastened	60.69	10.65
			For Steep Roof, Over 7 To 12, Add	6.81	
			For >50 To 75, Deduct	-1.58	
			For >75 To 100, Deduct	-3.29	
			For >100 To 200, Deduct	-5.40	
			For >200, Deduct	-7.65	
07 34 00 00-0005	SQ		Fire Rated, Polypropylene Roofing Underlayment, Mechanically Fastened (Rex™ Synfelt)	67.66	16.13
			For Steep Roof, Over 7 To 12, Add	10.32	
			For >50 To 75, Deduct	-1.42	
			For >75 To 100, Deduct	-3.28	
			For >100 To 200, Deduct	-5.51	
			For >200, Deduct	-8.18	
07 34 00 00-0006	SQ		17 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 25)	75.05	16.13
			For Steep Roof, Over 7 To 12, Add	10.32	
			For >50 To 75, Deduct	-1.71	
			For >75 To 100, Deduct	-3.80	
			For >100 To 200, Deduct	-6.32	
			For >200, Deduct	-9.22	
07 34 00 00-0007	SQ		25 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 30)	87.24	16.13
			For Steep Roof, Over 7 To 12, Add	10.32	
			For >50 To 75, Deduct	-2.20	
			For >75 To 100, Deduct	-4.66	
			For >100 To 200, Deduct	-7.66	
			For >200, Deduct	-10.92	
07 34 00 00-0008	SQ		30 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 50)	81.15	16.13
			For Steep Roof, Over 7 To 12, Add	10.32	
			For >50 To 75, Deduct	-1.96	
			For >75 To 100, Deduct	-4.23	
			For >100 To 200, Deduct	-6.99	
			For >200, Deduct	-10.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 34 00 00-0009 Self-Adhering, Roofing Underlayment <small>(07 34)</small>		
<i>Note: Standard slope.</i>		
07 34 00 00-0010 SQ 48 Mil, Fire Rated, Polymeric Asphalt Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® Mat)	140.23	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-4.04	
<i>For >75 To 100, Deduct</i>	-8.06	
<i>For >100 To 200, Deduct</i>	-13.08	
<i>For >200, Deduct</i>	-18.07	
07 34 00 00-0011 SQ 60 Mil, Fire Rated, Granule Surfaced, Rubberized Asphalt Adhesive, Roofing Underlayment, Self-Adhering (Grace Basik®)	210.85	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-6.87	
<i>For >75 To 100, Deduct</i>	-13.00	
<i>For >100 To 200, Deduct</i>	-20.85	
<i>For >200, Deduct</i>	-27.95	
07 34 00 00-0012 SQ 53 Mil, Fire Rated, Granule Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® G)	148.96	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-4.39	
<i>For >75 To 100, Deduct</i>	-8.67	
<i>For >100 To 200, Deduct</i>	-14.04	
<i>For >200, Deduct</i>	-19.29	
07 34 00 00-0013 SQ 65 Mil, Fire Rated, Polyester Non Woven Fabric Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self Adhering (Owens Corning® WeatherLock® Specialty Tile And Metal)	140.23	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-4.04	
<i>For >75 To 100, Deduct</i>	-8.06	
<i>For >100 To 200, Deduct</i>	-13.08	
<i>For >200, Deduct</i>	-18.07	
07 34 00 00-0014 SQ 45 Mil, Fire Rated, High Temperature, Synthetic Polymer Surfaced, Modified Rubberized Asphalt, Roofing Underlayment, Self-Adhering (TITANIUM™ PSU-30)	200.66	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-6.46	
<i>For >75 To 100, Deduct</i>	-12.29	
<i>For >100 To 200, Deduct</i>	-19.73	
<i>For >200, Deduct</i>	-26.53	
07 34 00 00-0015 SQ 25 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Select).....	168.75	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-5.19	
<i>For >75 To 100, Deduct</i>	-10.05	
<i>For >100 To 200, Deduct</i>	-16.22	
<i>For >200, Deduct</i>	-22.06	
07 34 00 00-0016 SQ 40 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield®).....	250.99	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-8.48	
<i>For >75 To 100, Deduct</i>	-15.81	
<i>For >100 To 200, Deduct</i>	-25.26	
<i>For >200, Deduct</i>	-33.57	
07 34 00 00-0017 SQ 40 Mil, Fire Rated, High Temperature, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield® HT)	287.01	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-9.92	
<i>For >75 To 100, Deduct</i>	-18.33	
<i>For >100 To 200, Deduct</i>	-29.22	
<i>For >200, Deduct</i>	-38.62	
07 34 00 00-0018 SQ 30 Mil, Fire Rated, High Temperature, Fire Rated, Embossed Surface, Butyl Rubber Based Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ultra)	422.16	19.56
<i>For Steep Roof, Over 7 To 12, Add</i>	12.52	
<i>For >50 To 75, Deduct</i>	-15.32	
<i>For >75 To 100, Deduct</i>	-27.79	
<i>For >100 To 200, Deduct</i>	-44.09	
<i>For >200, Deduct</i>	-57.54	

07 40 Roofing and Siding Panels (07)

07 41 Roof Panels (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

07 41 13 Metal Roof Panels (07 41)

07 41 13 00-0001 Exposed Fastener Metal Roofing (07 41 13)

Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing (07 41 13 00-0001)

07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels (07 41 13 00-0002)

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0004	SF		18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.70	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0005	SF		20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.00	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0006	SF		22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.51	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0007	SF		24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.03	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0008	SF		26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.63	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0009	SF		29 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.29	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0010	SF		30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.14	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0011			Galvanized Exposed Fastener Metal Roof Accessories (07 41 13 00-0002)		
			See CSI section 07 41 13 00-0038 for accessories.		
07 41 13 00-0012	LF		Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....	25.15	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.27	
07 41 13 00-0013	LF		9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Exposed Fastener Roofing.....	15.83	2.02
			<i>For Steep Roof, Over 7 To 12, Add</i>	2.65	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.75	
07 41 13 00-0014	LF		Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	30.14	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.77	
07 41 13 00-0015	LF		Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....	25.60	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.32	
07 41 13 00-0016			Aluminum Exposed Fastener Metal Roofing (07 41 13 00-0001)		
07 41 13 00-0017			Aluminum Exposed Fastener Metal Roof Panels (07 41 13 00-0016)		
07 41 13 00-0018	SF		0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	5.57	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0019	SF		0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	5.70	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0020	SF		0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.02	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0021	SF		0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.45	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0022	SF		0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.88	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0023	SF		0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	7.42	2.96
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
			<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0024			Aluminum Exposed Fastener Metal Roof Accessories (07 41 13 00-0016)		
07 41 13 00-0025	LF		Ridge Flashing For Aluminum Exposed Fastener Metal Roofing.....	28.21	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.58	
07 41 13 00-0026	LF		9" To 12" Girth, Eave Or Gable Flashing For Aluminum Exposed Fastener Metal Roofing.....	17.60	2.13
			<i>For Steep Roof, Over 7 To 12, Add</i>	2.65	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.93	
07 41 13 00-0027	LF		Valley Flashing For Aluminum Exposed Fastener Metal Roofing.....	34.45	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	2.20	
07 41 13 00-0028	LF		Hip Flashing For Aluminum Exposed Fastener Metal Roofing.....	28.78	3.07
			<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
			<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0029 Standing Seam Roofs <small>(07 41 13)</small> Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
07 41 13 00-0030 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: All steel is galvanized G90 rated or galvalume®. Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0031 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0032 SF Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 12.07	12.07	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.76	
<i>For 140 MPH Wind Load, Add</i>	0.74	
<i>For Up To 1,500, Add</i>	3.02	
<i>For >1,500 To 5,000, Add</i>	1.81	
<i>For >5,000 To 10,000, Add</i>	0.30	
07 41 13 00-0033 SF Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 12.61	12.61	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.79	
<i>For 140 MPH Wind Load, Add</i>	0.75	
<i>For Up To 1,500, Add</i>	3.15	
<i>For >1,500 To 5,000, Add</i>	1.89	
<i>For >5,000 To 10,000, Add</i>	0.32	
07 41 13 00-0034 SF Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 11.58	11.58	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.74	
<i>For 140 MPH Wind Load, Add</i>	0.73	
<i>For Up To 1,500, Add</i>	2.90	
<i>For >1,500 To 5,000, Add</i>	1.74	
<i>For >5,000 To 10,000, Add</i>	0.29	
07 41 13 00-0035 SF Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 11.77	11.77	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.75	
<i>For 140 MPH Wind Load, Add</i>	0.74	
<i>For Up To 1,500, Add</i>	2.94	
<i>For >1,500 To 5,000, Add</i>	1.77	
<i>For >5,000 To 10,000, Add</i>	0.29	
07 41 13 00-0036 SF Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 11.99	11.99	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.76	
<i>For 140 MPH Wind Load, Add</i>	0.74	
<i>For Up To 1,500, Add</i>	3.00	
<i>For >1,500 To 5,000, Add</i>	1.80	
<i>For >5,000 To 10,000, Add</i>	0.30	
07 41 13 00-0037 SF Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing 12.78	12.78	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.80	
<i>For 140 MPH Wind Load, Add</i>	0.76	
<i>For Up To 1,500, Add</i>	3.20	
<i>For >1,500 To 5,000, Add</i>	1.92	
<i>For >5,000 To 10,000, Add</i>	0.32	
07 41 13 00-0038 Accessories For Galvanized Steel Standing Seam Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0039 LF Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 26.42	26.42	3.07
<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
<i>For 140 MPH Wind Load, Add</i>	1.52	
07 41 13 00-0040 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 16.58	16.58	2.13
<i>For Steep Roof, Over 6 To 12, Add</i>	2.49	
<i>For 140 MPH Wind Load, Add</i>	0.99	
07 41 13 00-0041 LF Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 31.92	31.92	3.07
<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
<i>For 140 MPH Wind Load, Add</i>	1.63	
07 41 13 00-0042 LF Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing 26.92	26.92	3.07
<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
<i>For 140 MPH Wind Load, Add</i>	1.53	
07 41 13 00-0043 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0044 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0043)</small>		
07 41 13 00-0045 SF Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing 12.45	12.45	3.14
<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
<i>For Panels <16" Wide, Add</i>	1.78	
<i>For 140 MPH Wind Load, Add</i>	0.75	
<i>For Up To 1,500, Add</i>	3.11	
<i>For >1,500 To 5,000, Add</i>	1.87	
<i>For >5,000 To 10,000, Add</i>	0.31	

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0046	SF		Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....	12.91	3.14
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
			<i>For Panels <16" Wide, Add</i>	1.81	
			<i>For 140 MPH Wind Load, Add</i>	0.76	
			<i>For Up To 1,500, Add</i>	3.23	
			<i>For >1,500 To 5,000, Add</i>	1.94	
			<i>For >5,000 To 10,000, Add</i>	0.32	
07 41 13 00-0047	SF		Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing	12.18	3.14
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
			<i>For Panels <16" Wide, Add</i>	1.77	
			<i>For 140 MPH Wind Load, Add</i>	0.75	
			<i>For Up To 1,500, Add</i>	3.05	
			<i>For >1,500 To 5,000, Add</i>	1.83	
			<i>For >5,000 To 10,000, Add</i>	0.30	
07 41 13 00-0048	SF		Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing	13.04	3.14
			<i>For Steep Roof, Over 6 To 12, Add</i>	1.88	
			<i>For Panels <16" Wide, Add</i>	1.81	
			<i>For 140 MPH Wind Load, Add</i>	0.76	
			<i>For Up To 1,500, Add</i>	3.26	
			<i>For >1,500 To 5,000, Add</i>	1.96	
			<i>For >5,000 To 10,000, Add</i>	0.33	
07 41 13 00-0049			Accessories For Aluminum Standing Seam Roofing (07 41 13 00-0043)		
07 41 13 00-0050	LF		Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	29.79	3.07
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
			<i>For 140 MPH Wind Load, Add</i>	1.59	
07 41 13 00-0051	LF		9" To 12" Girth, Eave Or Gable Flashing For Aluminum Standing Seam Concealed Fastener Roofing	18.53	2.13
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.49	
			<i>For 140 MPH Wind Load, Add</i>	1.03	
07 41 13 00-0052	LF		Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing	36.66	3.07
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
			<i>For 140 MPH Wind Load, Add</i>	1.73	
07 41 13 00-0053	LF		Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	30.42	3.07
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.73	
			<i>For 140 MPH Wind Load, Add</i>	1.60	
07 41 13 00-0054			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
07 41 13 00-0055			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0056	SF		Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing.....	22.75	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	2.88	
			<i>For 140 MPH Wind Load, Add</i>	1.21	
			<i>For Up To 1,500, Add</i>	5.69	
			<i>For >1,500 To 5,000, Add</i>	3.41	
			<i>For >5,000 To 10,000, Add</i>	0.57	
07 41 13 00-0057	SF		Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing.....	25.58	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	3.02	
			<i>For 140 MPH Wind Load, Add</i>	1.26	
			<i>For Up To 1,500, Add</i>	6.40	
			<i>For >1,500 To 5,000, Add</i>	3.84	
			<i>For >5,000 To 10,000, Add</i>	0.64	
07 41 13 00-0058	SF		Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing.....	28.94	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	3.19	
			<i>For 140 MPH Wind Load, Add</i>	1.33	
			<i>For Up To 1,500, Add</i>	7.24	
			<i>For >1,500 To 5,000, Add</i>	4.34	
			<i>For >5,000 To 10,000, Add</i>	0.72	
07 41 13 00-0059	SF		Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing.....	33.26	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	3.40	
			<i>For 140 MPH Wind Load, Add</i>	1.42	
			<i>For Up To 1,500, Add</i>	8.32	
			<i>For >1,500 To 5,000, Add</i>	4.99	
			<i>For >5,000 To 10,000, Add</i>	0.83	
07 41 13 00-0060			Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0061	LF		Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing	65.80	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.12	
			<i>For 140 MPH Wind Load, Add</i>	2.41	
07 41 13 00-0062	LF		9" To 12" Girth, Eave Or Gable Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing	35.97	2.25
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.73	
			<i>For 140 MPH Wind Load, Add</i>	1.45	
07 41 13 00-0063	LF		Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	89.53	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.08	
			<i>For 140 MPH Wind Load, Add</i>	2.88	
07 41 13 00-0064	LF		Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	67.69	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.12	
			<i>For 140 MPH Wind Load, Add</i>	2.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0065 Metal Roof Surfacing <small>(07 41 13)</small>						
	07 41 13 00-0066	SF		Acrylic, Metal Roof Primer, One Coat.....	0.42	
				<i>For Steep Roof, Over 7 To 12, Add</i>	0.06	
	07 41 13 00-0067	SF		Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat.....	0.62	
				<i>Note: 55% solids by volume.</i>		
				<i>For Steep Roof, Over 7 To 12, Add</i>	0.06	
07 41 33 Plastic Roof Panels <small>(07 41)</small>						
07 41 33 00-0001 Polyvinyl Chloride (PVC) Roofing Panels <small>(07 41 33)</small>						
07 41 33 00-0002 Polyvinyl Chloride (PVC) Roofing Panels <small>(07 41 33 00-0001)</small>						
	07 41 33 00-0003	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide.....	6.77	2.15
	07 41 33 00-0004	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide.....	6.52	1.94
	07 41 33 00-0005	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....	7.05	2.15
	07 41 33 00-0006	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....	6.75	1.94
07 41 33 00-0007 Polyvinyl Chloride (PVC) Roofing Accessories <small>(07 41 33 00-0001)</small>						
	07 41 33 00-0008	LF		1" "J" Channel, Starter Strip Trim.....	4.04	1.62
	07 41 33 00-0009	LF		3-1/2" "J" Channel, Starter Strip Trim.....	6.13	1.62
	07 41 33 00-0010	LF		Outside Corner Post, 7/8" Pocket.....	6.74	1.62
	07 41 33 00-0011	LF		Inside Corner Post, 7/8" Pocket.....	5.11	1.62
07 41 33 00-0012 Fiberglass Roofing Panel <small>(07 41 33)</small>						
07 41 33 00-0013 Corrugated Panels <small>(07 41 33 00-0012)</small>						
	07 41 33 00-0014	SF		8 Ounce Corrugated Fiberglass Panel.....	5.94	1.72
	07 41 33 00-0015	SF		12 Ounce Corrugated Fiberglass Panel.....	6.74	1.72
07 42 Wall Panels <small>(07 40)</small>						
07 42 13 Metal Wall Panels <small>(07 42)</small>						
07 42 13 19 Insulated Metal Wall Panels <small>(07 42 13)</small>						
07 42 13 19-0001 Insulated Panels For Sash/Window Replacement <small>(07 42 13 19)</small>						
				<i>Note: Porcelain or polymer finish on aluminum panel with polystyrene core.</i>		
	07 42 13 19-0002	SF		1" Insulated Panel For Sash Or Window Replacement.....	22.06	4.68
				<i>For Non-Insulated Panels, Deduct</i>	-3.16	
	07 42 13 19-0003	SF		1-1/4" Insulated Panel For Sash Or Window Replacement.....	23.94	5.27
				<i>For Non-Insulated Panels, Deduct</i>	-3.37	
	07 42 13 19-0004	SF		1-3/4" Insulated Panel For Sash Or Window Replacement.....	25.62	5.86
				<i>For Non-Insulated Panels, Deduct</i>	-3.59	
	07 42 13 19-0005	SF		2-1/4" Insulated Panel For Sash Or Window Replacement.....	27.43	6.09
				<i>For Non-Insulated Panels, Deduct</i>	-3.81	
	07 42 13 19-0006	SF		3-1/4" Insulated Panel For Sash Or Window Replacement.....	31.00	6.67
				<i>For Non-Insulated Panels, Deduct</i>	-4.43	
	07 42 13 19-0007	SF		4-1/4" Insulated Panel For Sash Or Window Replacement.....	35.87	7.38
				<i>For Non-Insulated Panels, Deduct</i>	-5.31	
07 42 13 23 Metal Composite Material Wall Panels <small>(07 42 13)</small>						
07 42 13 23-0001 24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <small>(07 42 13 23)</small>						
				<i>Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume® AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.</i>		
	07 42 13 23-0002	SF		2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	20.57	2.72
				<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
				<i>For Premium Exterior Colors, Add</i>	0.12	
	07 42 13 23-0003	SF		2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	23.18	3.07
				<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
				<i>For Premium Exterior Colors, Add</i>	0.12	
	07 42 13 23-0004	SF		3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	25.39	3.49
				<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
				<i>For Premium Exterior Colors, Add</i>	0.12	
	07 42 13 23-0005	SF		4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	28.51	4.62
				<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
				<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 63 Fabricated Wall Panel Assemblies <small>(07 42)</small>						

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 42 Wall Panels**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 42 63 00-0001	Insulated Freezer And Chiller Panels (07 42 63) Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002	Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF 2" 22 Gauge Freezer Panel Sheet Metal Both Faces	18.93	2.20
07 42 63 00-0004	SF 3" 22 Gauge Freezer Panel Sheet Metal Both Faces	19.97	2.20
07 42 63 00-0005	SF 4" 22 Gauge Freezer Panel Sheet Metal Both Faces	23.55	2.20
07 42 63 00-0006	SF 5" 22 Gauge Freezer Panel Sheet Metal Both Faces	25.42	2.34
07 42 63 00-0007	SF 6" 22 Gauge Freezer Panel Sheet Metal Both Faces	26.96	2.34
07 42 63 00-0008	SF 2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	16.91	1.81
07 42 63 00-0009	SF 3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	18.30	1.81
07 42 63 00-0010	SF 4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	21.85	1.94
07 42 63 00-0011	SF 5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	21.27	1.94
07 42 63 00-0012	SF 6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	24.85	1.94
07 42 63 00-0013	Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF 2" Freezer Panel 0.040" Aluminum Finish Both Faces	11.49	2.20
07 42 63 00-0015	SF 3" Freezer Panel 0.040" Aluminum Finish Both Faces	12.14	2.20
07 42 63 00-0016	SF 4" Freezer Panel 0.040" Aluminum Finish Both Faces	13.87	2.20
07 42 63 00-0017	SF 5" Freezer Panel 0.040" Aluminum Finish Both Faces	14.98	2.34
07 42 63 00-0018	SF 6" Freezer Panel 0.040" Aluminum Finish Both Faces	15.78	2.34
07 42 63 00-0019	SF 2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.21	1.81
07 42 63 00-0020	SF 3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.86	1.81
07 42 63 00-0021	SF 4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	11.59	1.94
07 42 63 00-0022	SF 5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	13.32	1.94
07 42 63 00-0023	SF 6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	14.41	1.94
07 42 93	Soffit Panels (07 42)		
07 42 93 00-0001	Aluminum Soffit And Fascia (07 42 93) Note: Excludes J-channel.		
07 42 93 00-0002	LF 6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	4.50	1.63
	For 0.015" Thick, Deduct	-0.07	
07 42 93 00-0003	LF 10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	5.47	1.73
	For 0.015" Thick, Deduct	-0.13	
07 42 93 00-0004	LF 1" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	5.95	1.77
	For 0.015" Thick, Deduct	-0.16	
07 42 93 00-0005	LF 1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	7.35	1.86
	For 0.015" Thick, Deduct	-0.25	
07 42 93 00-0006	LF 2" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	8.93	2.04
	For 0.015" Thick, Deduct	-0.35	
07 42 93 00-0007	LF 3" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	11.76	2.25
	For 0.015" Thick, Deduct	-0.53	
07 42 93 00-0008	LF 4" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	14.63	2.48
	For 0.015" Thick, Deduct	-0.69	
07 42 93 00-0009	LF 5" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	17.54	2.72
	For 0.015" Thick, Deduct	-0.88	
07 42 93 00-0010	LF 4" Exposure, 0.024" Thick, Aluminum Fascia	5.19	1.60
07 42 93 00-0011	LF 6" Exposure, 0.024" Thick, Aluminum Fascia	5.64	1.63
07 42 93 00-0012	LF 8" Exposure, 0.024" Thick, Aluminum Fascia	6.55	1.69
07 42 93 00-0013	LF 10" Exposure, 0.024" Thick, Aluminum Fascia	7.52	1.73
07 46	Siding (07 46)		
07 46 16	Aluminum Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 16 00-0001	Aluminum Coil Stock Cladding (07 46 16) Note: Per SF of board, includes overlappage.		
07 46 16 00-0002	SF 0.016" Thick, Aluminum Clad Siding	11.83	4.34
07 46 16 00-0003	SF 0.019" Thick, Aluminum Clad Siding	11.93	4.34
07 46 16 00-0004	SF 0.024" Thick, Aluminum Clad Siding	12.10	4.34
07 46 16 00-0005	Aluminum Siding Panels (07 46 16)		
07 46 16 00-0006	Corrugated Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0007	SF 0.019", Painted Finish, Corrugated Aluminum Siding Panel	7.48	2.37
07 46 16 00-0008	SF 0.021", Painted Finish, Corrugated Aluminum Siding Panel	7.72	2.37
07 46 16 00-0009	SF 0.024", Painted Finish, Corrugated Aluminum Siding Panel	8.47	2.37
07 46 16 00-0010	SF 0.032", Painted Finish, Corrugated Aluminum Siding Panel	9.94	2.37
07 46 16 00-0011	V- Beam Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0012	SF 0.032", Painted Finish, V- Beam Aluminum Siding Panel	9.87	2.37
07 46 16 00-0013	SF 0.040", Painted Finish, V- Beam Aluminum Siding Panel	10.86	2.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				07 46 16 00-0014 SF 0.050", Painted Finish, V- Beam Aluminum Siding Panel	13.18	2.37
07 46 16 00-0015				Box Ribbed Aluminum Siding Panels (07 46 16 00-0005) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
				07 46 16 00-0016 SF 0.032", Painted Finish, Box Ribbed Aluminum Siding Panel	10.30	2.37
				07 46 16 00-0017 SF 0.040", Painted Finish, Box Ribbed Aluminum Siding Panel	11.25	2.37
				07 46 16 00-0018 SF 0.050", Painted Finish, Box Ribbed Aluminum Siding Panel	11.83	2.37
07 46 16 00-0019				Aluminum Siding Accessories (07 46 16)		
				07 46 16 00-0020 LF 3/8" Pocket, Aluminum J-Channel	3.53	1.53
				07 46 16 00-0021 LF 1/2" Pocket, Aluminum J-Channel	3.53	1.53
				07 46 16 00-0022 LF 3/4" Pocket, Aluminum J-Channel	4.09	1.53
				07 46 16 00-0023 LF 3/8" Pocket, Aluminum F-Channel	3.74	1.53
				07 46 16 00-0024 LF 1/2" Pocket, Aluminum F-Channel	3.74	1.53
07 46 19				Steel Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 19 00-0001				Steel Siding Panels (07 46 19)		
07 46 19 00-0002				Corrugated Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
				07 46 19 00-0003 SF 20 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.92	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.30	
				07 46 19 00-0004 SF 22 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.26	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.13	
				07 46 19 00-0005 SF 24 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.10	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.09	
				07 46 19 00-0006 SF 26 Gauge, Painted Finish, Corrugated Steel Siding Panel	7.15	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	0.60	
				07 46 19 00-0007 SF 28 Gauge, Painted Finish, Corrugated Steel Siding Panel	7.01	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	0.57	
				07 46 19 00-0008 SF 30 Gauge, Painted Finish, Corrugated Steel Siding Panel	6.92	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	0.55	
07 46 19 00-0009				Box Ribbed Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
				07 46 19 00-0010 SF 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	9.42	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.17	
				07 46 19 00-0011 SF 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	9.12	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.10	
				07 46 19 00-0012 SF 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	8.92	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.05	
				07 46 19 00-0013 SF 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	8.59	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	0.97	
				07 46 19 00-0014 SF 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	7.88	2.37
				<i>For Galvanized Instead Of Painted Steel, Add</i>	0.79	
07 46 19 00-0015				Clapboard Steel Siding Panels (07 46 19 00-0001) Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
				07 46 19 00-0016 SF 29 Gauge, Painted Finish, Clapboard Steel Siding Panel	8.13	1.18
07 46 23				Wood Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 23 00-0001				Wood Lap Siding (07 46 23)		
				07 46 23 00-0002 LF 8" Wide Rough Sawn Cedar Lap Siding	3.91	1.58
				07 46 23 00-0003 LF 10" Wide Rough Sawn Cedar Lap Siding	4.31	1.68
				07 46 23 00-0004 LF 12" Wide Rough Sawn Cedar Lap Siding	4.75	1.79
				07 46 23 00-0005 LF 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade	4.13	1.58
				07 46 23 00-0006 LF 6" To 8" Wide Spruce Lap Siding, #2 Or Better	4.51	1.58
				07 46 23 00-0007 LF 6" To 8" Wide Western Red Cedar, B Grade Lap Siding	5.35	1.58
				07 46 23 00-0008 LF 6" To 8" Wide Western Red Cedar, A Grade Lap Siding	5.67	1.58
				07 46 23 00-0009 LF 6" To 8" Wide Clear Heart Redwood Lap Siding	5.21	1.58
				07 46 23 00-0010 LF 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin	4.24	1.68
				07 46 23 00-0011 LF 1" x 8" Cedar Beveled Siding, Channel, Rustic	4.24	1.68
07 46 23 00-0012				Tongue And Groove Siding (07 46 23)		
				07 46 23 00-0013 SF 1" x 6" Tongue And Groove Southern Yellow Pine Siding	3.89	1.58
				07 46 23 00-0014 SF 1" x 8" Tongue And Groove Southern Yellow Pine Siding	4.23	1.58
				07 46 23 00-0015 SF 1" x 6" 105 Southern Yellow Pine Siding	3.97	1.58
				07 46 23 00-0016 SF 1" x 8" 105 Southern Yellow Pine Siding	4.44	1.58
07 46 29				Plywood Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 29 00-0001			T-111 Siding <small>(07 46 29)</small>		
07 46 29 00-0002	SF		5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud..... <i>For Pressure Treated, Add</i>	3.49 0.18	0.82
07 46 33			Plastic Siding <small>(07 46)</small>		
			Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 33 00-0001			Vinyl Siding <small>(07 46 33)</small>		
			Note: Includes standard manufacturer's colors.		
07 46 33 00-0002			Vinyl Siding Panels <small>(07 46 33 00-0001)</small>		
			Note: Excludes J-channels, starter strips and trim.		
07 46 33 00-0003			Horizontal Vinyl Siding Panels <small>(07 46 33 00-0002)</small>		
			Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		
07 46 33 00-0004	SF		7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	5.11 -0.16 0.24 0.65 0.06	2.00
07 46 33 00-0005	SF		8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.88 -0.16 0.24 0.65 0.06	1.89
07 46 33 00-0006	SF		9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.69 -0.16 0.24 0.65 0.06	1.80
07 46 33 00-0007	SF		10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.52 -0.16 0.24 0.65 0.06	1.71
07 46 33 00-0008	SF		12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.29 -0.16 0.24 0.65 0.06	1.59
07 46 33 00-0009			Vertical Vinyl Siding Panels <small>(07 46 33 00-0002)</small>		
07 46 33 00-0010	SF		7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel..... <i>For Manufacturer's Custom Colors, Add</i>	5.96 0.10	2.00
07 46 33 00-0011			Vinyl Siding Accessories <small>(07 46 33 00-0001)</small>		
07 46 33 00-0012	LF		3/4" Pocket, Outside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.88 0.14	1.53
07 46 33 00-0013	LF		1-1/8" Pocket, Outside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	10.16 0.35	1.53
07 46 33 00-0014	LF		3/4" Pocket, Inside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.80 0.09	1.53
07 46 33 00-0015	LF		1-1/8" Pocket, Inside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.70 0.13	1.53
07 46 33 00-0016	LF		3/8" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.69 0.04	1.53
07 46 33 00-0017	LF		1/2" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.48 0.03	1.53
07 46 33 00-0018	LF		5/8" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.44 0.03	1.53
07 46 33 00-0019	LF		3/4" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.57 0.04	1.53
07 46 33 00-0020	LF		1" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.18 0.06	1.53
07 46 33 00-0021	LF		1-1/4" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.49 0.07	1.53
07 46 33 00-0022	LF		2-1/2" Pocket, J-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.10 0.07	1.53
07 46 33 00-0023	LF		1/2" Pocket, F-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.43 0.05	1.53
07 46 33 00-0024	LF		3/4" Pocket, 3-1/2" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	7.54 0.17	2.12
07 46 33 00-0025	LF		3/4" Pocket, 5" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	7.84 0.18	2.12
07 46 33 00-0026	LF		1-1/8" Pocket, 3-1/2" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	8.51 0.21	2.12
07 46 33 00-0027	LF		3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.63 0.08	1.53
07 46 33 00-0028	LF		Vinyl Starter Strip For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.57 0.12	1.53
07 46 33 00-0029	LF		Undersill Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.89 0.09	1.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0030 Vinyl Soffit And Fascia <small>(07 46 33 00-0001)</small> Note: Excludes J-channel.		
07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	4.30	1.63
For 0.038" Thick, Deduct	-0.46	
For 0.040" Thick, Deduct	-0.37	
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	5.13	1.73
For 0.038" Thick, Deduct	-0.77	
For 0.040" Thick, Deduct	-0.63	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0033 LF 1" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit	5.55	1.77
For 0.038" Thick, Deduct	-0.91	
For 0.040" Thick, Deduct	-0.76	
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0034 LF 1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	6.75	1.86
For 0.038" Thick, Deduct	-1.39	
For 0.040" Thick, Deduct	-1.15	
For Manufacturer's Custom Colors, Add	0.15	
07 46 33 00-0035 LF 2' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit	8.13	2.04
For 0.038" Thick, Deduct	-1.84	
For 0.040" Thick, Deduct	-1.54	
For Manufacturer's Custom Colors, Add	0.20	
07 46 33 00-0036 LF 3' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit	10.55	2.25
For 0.038" Thick, Deduct	-2.77	
For 0.040" Thick, Deduct	-2.32	
For Manufacturer's Custom Colors, Add	0.30	
07 46 33 00-0037 LF 4' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit	13.02	2.48
For 0.038" Thick, Deduct	-3.71	
For 0.040" Thick, Deduct	-3.11	
For Manufacturer's Custom Colors, Add	0.40	
07 46 33 00-0038 LF 5' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit	15.53	2.72
For 0.038" Thick, Deduct	-4.64	
For 0.040" Thick, Deduct	-3.89	
For Manufacturer's Custom Colors, Add	0.51	
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia.....	4.43	1.60
For Manufacturer's Custom Colors, Add	0.06	
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia.....	4.86	1.63
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia.....	4.83	1.69
For Manufacturer's Custom Colors, Add	0.07	
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia.....	5.43	1.73
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0043 Fiberglass Siding <small>(07 46 33)</small>		
07 46 33 00-0044 Corrugated Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....	6.39	2.36
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....	6.73	2.12
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....	7.34	2.12
07 46 33 00-0048 Flat Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels.....	6.17	2.12
07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels.....	6.73	2.12
07 46 46 Fiber-Cement Siding <small>(07 46)</small> Note: Smooth or patterns. Includes sealer and primer.		
07 46 46 00-0001 5/16" Thick, Fiber Cement Lap Siding <small>(07 46 46)</small>		
07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	7.14	2.48
07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.79	2.36
07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.64	2.29
07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.48	2.24
07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.20	2.12
07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.91	2.00
07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding.....	1.57	0.59
07 46 46 00-0009 Fiber Cement Shingle Siding <small>(07 46 46)</small>		
07 46 46 00-0010 SF Fiber Cement Shingle Siding	11.02	2.18
07 46 46 00-0011 Fiber Cement Vertical Panel Siding <small>(07 46 46)</small>		
07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding.....	5.24	1.77
07 46 46 00-0013 Fiber Cement Trim Boards <small>(07 46 46)</small>		
07 46 46 00-0014 7/16" Thick, Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 46 00-0015	LF		4" Wide, 7/16" Thick, Fiber Cement Trim Board	3.42	1.18
07 46 46 00-0016	LF		6" Wide, 7/16" Thick, Fiber Cement Trim Board	4.35	1.30
07 46 46 00-0017	LF		8" Wide, 7/16" Thick, Fiber Cement Trim Board	5.25	1.41
07 46 46 00-0018	LF		12" Wide, 7/16" Thick, Fiber Cement Trim Board	6.91	1.65
07 46 46 00-0019			3/4" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
07 46 46 00-0020	LF		4" Wide, 3/4" Thick, Fiber Cement Trim Board	3.59	1.18
07 46 46 00-0021	LF		6" Wide, 3/4" Thick, Fiber Cement Trim Board	4.62	1.30
07 46 46 00-0022	LF		8" Wide, 3/4" Thick, Fiber Cement Trim Board	5.69	1.41
07 46 46 00-0023	LF		12" Wide, 3/4" Thick, Fiber Cement Trim Board	5.94	1.65
07 46 46 00-0024			1" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
07 46 46 00-0025	LF		4" Wide, 1" Thick, Fiber Cement Trim Board	3.81	1.18
07 46 46 00-0026	LF		6" Wide, 1" Thick, Fiber Cement Trim Board	5.01	1.30
07 46 46 00-0027	LF		8" Wide, 1" Thick, Fiber Cement Trim Board	6.27	1.41
07 46 46 00-0028	LF		12" Wide, 1" Thick, Fiber Cement Trim Board	8.37	1.65
07 46 46 00-0029			Fiber Cement Fascia Board (07 46 46)		
07 46 46 00-0030	LF		5/4" x 3-1/2" Fiber Cement Fascia Board.....	6.18	2.34
07 46 46 00-0031	LF		5/4" x 5-1/2" Fiber Cement Fascia Board.....	7.59	2.60
07 46 46 00-0032	LF		5/4" x 7-1/4" Fiber Cement Fascia Board.....	8.34	2.60
07 46 46 00-0033	LF		5/4" x 11-1/4" Fiber Cement Fascia Board.....	10.89	3.06
07 46 46 00-0034			Fiber Cement Soffit Boards (07 46 46)		
07 46 46 00-0035	SF		1/4" Thick, Non Vented Fiber Cement Soffit	6.60	1.69
07 46 46 00-0036	SF		1/4" Thick, Vented Fiber Cement Soffit.....	7.01	1.69
07 46 63			Fabricated Panel Assemblies with Siding (07 46)		
07 46 63 00-0001			Metal Liner Panels (07 46 63)		
07 46 63 00-0002			Galvanized Metal Liner Panels (07 46 63 00-0001)		
07 46 63 00-0003	SF		24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	9.94	2.10
07 46 63 00-0004	SF		22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	10.84	2.10
07 46 63 00-0005	SF		20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	12.43	2.10
07 46 63 00-0006	SF		18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	12.59	2.10
07 50			Membrane Roofing (07)		
See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.					
07 51			Built-Up Bituminous Roofing (07 50)		
07 51 13			Built-Up Asphalt Roofing (07 51)		
07 51 13 00-0001			Built-Up Asphalt Roofing Components (07 51 13)		
07 51 13 00-0002			Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0067 for built-up roofing demolition.					
07 51 13 00-0003			Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
Note: Includes applying cold adhesive and embedding the membrane.					
07 51 13 00-0004			Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)		
07 51 13 00-0005	SQ		Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied	103.88	
			For Up To 10, Add	27.65	
			For >10 To 20, Add	15.54	
			For >20 To 40, Add	8.63	
			For >75 To 100, Deduct	-4.31	
			For >100 To 200, Deduct	-9.49	
			For >200, Deduct	-13.80	
07 51 13 00-0006	SQ		Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied	285.08	
			For Up To 10, Add	63.89	
			For >10 To 20, Add	33.66	
			For >20 To 40, Add	17.69	
			For >75 To 100, Deduct	-8.84	
			For >100 To 200, Deduct	-18.55	
			For >200, Deduct	-27.39	
07 51 13 00-0007			Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)		
07 51 13 00-0008	SF		Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied.....	6.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0009 Hot-Mopped, Built-Up Asphalt Membrane Roofing <small>(07 51 13 00-0002)</small> Note: Includes mopping hot asphalt and embedding the membrane.		
07 51 13 00-0010 Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets <small>(07 51 13 00-0009)</small>		
07 51 13 00-0011 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	76.90	
For Up To 10, Add	22.37	
For >10 To 20, Add	12.94	
For >20 To 40, Add	7.34	
For >75 To 100, Deduct	-3.67	
For >100 To 200, Deduct	-8.22	
For >200, Deduct	-11.89	
07 51 13 00-0012 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	82.07	
For Up To 10, Add	23.41	
For >10 To 20, Add	13.45	
For >20 To 40, Add	7.60	
For >75 To 100, Deduct	-3.80	
For >100 To 200, Deduct	-8.47	
For >200, Deduct	-12.28	
07 51 13 00-0013 SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....	87.94	
For Up To 10, Add	24.58	
For >10 To 20, Add	14.04	
For >20 To 40, Add	7.89	
For >75 To 100, Deduct	-3.95	
For >100 To 200, Deduct	-8.77	
For >200, Deduct	-12.72	
07 51 13 00-0014 SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped	153.05	
For Up To 10, Add	37.60	
For >10 To 20, Add	20.55	
For >20 To 40, Add	11.15	
For >75 To 100, Deduct	-5.57	
For >100 To 200, Deduct	-12.02	
For >200, Deduct	-17.60	
07 51 13 00-0015 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped	258.11	
For Up To 10, Add	58.62	
For >10 To 20, Add	31.06	
For >20 To 40, Add	16.40	
For >75 To 100, Deduct	-8.20	
For >100 To 200, Deduct	-17.28	
For >200, Deduct	-25.48	
07 51 13 00-0016 SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped	196.12	
For Up To 10, Add	46.89	
For >10 To 20, Add	25.36	
For >20 To 40, Add	13.64	
For >75 To 100, Deduct	-6.82	
For >100 To 200, Deduct	-14.59	
For >200, Deduct	-21.41	
07 51 13 00-0017 Hot-Mopped, Built-Up Asphalt Roofing Flashing <small>(07 51 13 00-0009)</small>		
07 51 13 00-0018 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped	4.40	
07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing <small>(07 51 13 00-0002)</small> Note: Includes fasteners.		
07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets <small>(07 51 13 00-0019)</small>		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	80.12	
For Up To 10, Add	19.46	
For >10 To 20, Add	10.59	
For >20 To 40, Add	5.72	
For >75 To 100, Deduct	-2.86	
For >100 To 200, Deduct	-6.15	
For >200, Deduct	-9.01	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	151.10	
For Up To 10, Add	33.65	
For >10 To 20, Add	17.68	
For >20 To 40, Add	9.27	
For >75 To 100, Deduct	-4.64	
For >100 To 200, Deduct	-9.70	
For >200, Deduct	-14.34	
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened	256.16	
For Up To 10, Add	54.66	
For >10 To 20, Add	28.19	
For >20 To 40, Add	14.52	
For >75 To 100, Deduct	-7.26	
For >100 To 200, Deduct	-14.95	
For >200, Deduct	-22.22	
07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing <small>(07 51 13 00-0019)</small>		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened	5.31	
07 51 13 00-0026 Asphalt Saturated Organic Felt <small>(07 51 13 00-0001)</small>		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0027			Cold Adhesive Applied, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied.....	100.64	
			For Up To 10, Add	27.00	
			For >10 To 20, Add	15.22	
			For >20 To 40, Add	8.47	
			For >75 To 100, Deduct	-4.23	
			For >100 To 200, Deduct	-9.33	
			For >200, Deduct	-13.56	
07 51 13 00-0029	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied.....	113.97	
			For Up To 10, Add	29.66	
			For >10 To 20, Add	16.55	
			For >20 To 40, Add	9.13	
			For >75 To 100, Deduct	-4.57	
			For >100 To 200, Deduct	-9.99	
			For >200, Deduct	-14.56	
07 51 13 00-0030			Hot-Mopped, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	73.67	
			For Up To 10, Add	21.73	
			For >10 To 20, Add	12.61	
			For >20 To 40, Add	7.18	
			For >75 To 100, Deduct	-3.59	
			For >100 To 200, Deduct	-8.05	
			For >200, Deduct	-11.65	
07 51 13 00-0032	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	86.99	
			For Up To 10, Add	24.39	
			For >10 To 20, Add	13.94	
			For >20 To 40, Add	7.85	
			For >75 To 100, Deduct	-3.92	
			For >100 To 200, Deduct	-8.72	
			For >200, Deduct	-12.64	
07 51 13 00-0033			Mechanically Fastened, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes fasteners.		
07 51 13 00-0034	SQ		15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	36.99	
			For Up To 10, Add	10.83	
			For >10 To 20, Add	6.27	
			For >20 To 40, Add	3.57	
			For >75 To 100, Deduct	-1.78	
			For >100 To 200, Deduct	-3.99	
			For >200, Deduct	-5.78	
07 51 13 00-0035	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	50.32	
			For Up To 10, Add	13.50	
			For >10 To 20, Add	7.61	
			For >20 To 40, Add	4.23	
			For >75 To 100, Deduct	-2.12	
			For >100 To 200, Deduct	-4.66	
			For >200, Deduct	-6.78	
07 51 13 00-0036			Surfacing (07 51 13 00-0001)		
07 51 13 00-0037	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat.....	162.45	
			For Up To 10, Add	49.67	
			For >10 To 20, Add	29.13	
			For >20 To 40, Add	16.71	
			For >75 To 100, Deduct	-8.36	
			For >100 To 200, Deduct	-18.86	
			For >200, Deduct	-27.22	
07 51 13 00-0038	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....	240.86	
			For Up To 10, Add	65.35	
			For >10 To 20, Add	36.97	
			For >20 To 40, Add	20.63	
			For >75 To 100, Deduct	-10.32	
			For >100 To 200, Deduct	-22.78	
			For >200, Deduct	-33.10	
07 51 13 00-0039	CY		Gravel Roofing Ballast, Spread To Desired Thickness	164.17	
			Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040	SQ		Protective Polypropylene Fabric Mat, Loose Laid.....	43.86	
			Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
			For Up To 10, Add	11.04	
			For >10 To 20, Add	6.09	
			For >20 To 40, Add	3.33	
			For >75 To 100, Deduct	-1.66	
			For >100 To 200, Deduct	-3.61	
			For >200, Deduct	-5.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0041 SQ Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat	117.03	
Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.		
For Up To 10, Add	27.53	
For >10 To 20, Add	14.80	
For >20 To 40, Add	7.91	
For >75 To 100, Deduct	-3.96	
For >100 To 200, Deduct	-8.43	
For >200, Deduct	-12.39	
07 51 13 00-0042 SQ Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat.....	104.06	
Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.		
For Up To 10, Add	24.94	
For >10 To 20, Add	13.50	
For >20 To 40, Add	7.27	
For >75 To 100, Deduct	-3.63	
For >100 To 200, Deduct	-7.78	
For >200, Deduct	-11.41	
07 51 13 00-0043 SQ Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat.....	139.44	
Note: Reflective coating for use over smooth-surfaced built-up roofs.		
For Up To 10, Add	32.01	
For >10 To 20, Add	17.04	
For >20 To 40, Add	9.03	
For >75 To 100, Deduct	-4.52	
For >100 To 200, Deduct	-9.55	
For >200, Deduct	-14.07	
07 51 13 00-0044 SQ 100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat.....	140.60	
Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
For Up To 10, Add	32.24	
For >10 To 20, Add	17.15	
For >20 To 40, Add	9.09	
For >75 To 100, Deduct	-4.55	
For >100 To 200, Deduct	-9.61	
For >200, Deduct	-14.15	
For Installation Over Granule Surfaced Asphalt Roof Systems, Add	41.66	
07 51 13 00-0045 SQ 100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat.....	145.37	
Note: Bleed blocking coating for use over built-up, Styrene-Butadiene-Styrene (SBS) and Atactic-Polypropylene (APP) modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
For Up To 10, Add	33.20	
For >10 To 20, Add	17.63	
For >20 To 40, Add	9.33	
For >75 To 100, Deduct	-4.67	
For >100 To 200, Deduct	-9.85	
For >200, Deduct	-14.51	
For Installation Over Granule Surfaced Asphalt Roof Systems, Add	43.23	
07 51 13 00-0046 SF Ceramic Coated Roofing Granules, Hand Broadcast	2.33	
Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047 SF Energy Star, Ceramic Coated UltraWhite Roofing Granules, Hand Broadcast.....	3.79	
Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0048 SQ Vapor Permeable Synthetic Underlayment (GAF Deck-Armor™).....	35.44	
07 51 13 00-0049 Walkway Pads <small>(07 51 13 00-0001)</small>		
Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0050 LF 5/16" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	29.25	
07 51 13 00-0051 LF 1/2" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	34.83	
07 51 13 00-0052 Cant And Tapered Edge Strips <small>(07 51 13 00-0001)</small>		
07 51 13 00-0053 LF 2" x 2" Perlite Cant Strip	4.08	
07 51 13 00-0054 LF 3" x 3" Perlite Cant Strip	4.21	
07 51 13 00-0055 LF 4" x 4" Perlite Cant Strip	4.82	
07 51 13 00-0056 LF 3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally	3.99	
07 51 13 00-0057 LF 4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally	4.12	
07 51 13 00-0058 LF 1/2" x 6" Perlite Tapered Edge Strip	4.57	
07 51 13 00-0059 LF 1/2" x 12" Perlite Tapered Edge Strip	5.27	
07 51 13 00-0060 LF 1" x 12" Perlite Tapered Edge Strip	5.45	
07 51 13 00-0061 LF 1" x 24" Perlite Tapered Edge Strip	6.18	
07 51 13 00-0062 LF 1-1/2" x 12" Perlite Tapered Edge Strip	6.11	
07 51 13 00-0063 LF 1-1/2" x 18" Perlite Tapered Edge Strip	7.43	
07 51 13 00-0064 LF 1-1/2" x 24" Perlite Tapered Edge Strip	8.39	
07 51 13 00-0065 Asphalt Primer <small>(07 51 13 00-0001)</small>		
07 51 13 00-0066 SQ Asphalt Primer For Roofing Systems.....	33.07	
Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 51 13 00-0067	Demolish Built-Up Roofing (07 51 13 00-0001)		
	Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling.		
07 51 13 00-0068	SQ Demolish Gravel/Slag Surfaced, Built Up Roofing System	360.80	
	For Up To 10, Add	89.46	
	For >10 To 25, Add	53.67	
07 51 13 00-0069	SQ Demolish Cap Sheet Surfaced, Built Up Roofing System	278.33	
	Note: Includes protective surfacing.		
	For Up To 10, Add	69.01	
	For >10 To 25, Add	41.40	
07 51 13 00-0070	Roofing System Warranty (07 51 13 00-0001)		
	Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.		
07 51 13 00-0071	EA Up To 50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	509.32	
07 51 13 00-0072	SQ >50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	7.28	
07 51 13 00-0073	EA Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	582.08	
07 51 13 00-0074	SQ >50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	11.64	
07 51 13 00-0075	EA Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	800.36	
07 51 13 00-0076	SQ >50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	16.01	
07 51 13 00-0077	Built-Up Roofing Components (Tremco) (07 51 13)		
	Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0078	Cold Applied BUR Base Plies And Ply Sheets (07 51 13 00-0077)		
07 51 13 00-0079	SQ BURmastic Composite Ply, Cold Applied BUR Component	114.91	
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.		
07 51 13 00-0080	SQ BURmastic Premium Composite Ply, Cold Applied BUR Component	139.05	
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0081	SQ BURmastic Supreme Composite Ply, Cold Applied BUR Component	164.33	
	Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0082	SQ 28 LB BURmastic Glass Ply, Cold Applied BUR Component	37.60	
	Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0083	SQ 33 LB BURmastic Glass Ply, Cold Applied BUR Component	54.28	
	Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0084	SQ POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component	223.72	
	Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.		
07 51 13 00-0085	SQ POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component	206.99	
	Note: A smooth surfaced, non woven fiberglass/scrim fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.		
07 51 13 00-0086	Hot Or Cold Applied Modified Bitumen Cap Membrane (07 51 13 00-0077)		
07 51 13 00-0087	SQ POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component	127.58	
	Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0088	SQ POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component	335.75	
	Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0089	SQ POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component	554.51	
	Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0090	SQ POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component	149.34	
	Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.		
07 51 13 00-0091	SQ POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component	228.18	
	Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.		
07 51 13 00-0092	SQ POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component	550.70	
	Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.		
07 51 13 00-0093	SQ POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component	401.49	
	Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.		
07 51 13 00-0094	SQ POWERply HE FR Cap Sheet, Hot Applied BUR Component	396.63	
	Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.		
07 51 13 00-0095	Self Adhesive Base Plies And Ply Sheets (07 51 13 00-0077)		
07 51 13 00-0096	SQ POWERply SA Base Sheet, Self Adhesive Roofing	230.52	
	Note: A self adhesive, fiberglass reinforced Styrene-Butadiene-Styrene (SBS) modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.		
07 51 13 00-0097	SQ POWERply SA FR Membrane, Self Adhesive Roofing	457.89	
	Note: A fire rated, granule surfaced, polyester reinforced, self adhesive Styrene-Butadiene-Styrene (SBS) modified bitumen membrane. Type I, Grade G. 130 mils.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0098				Flashings (07 51 13 00-0077)		
			LF	11-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	14.70	
			LF	19" Hypalon Elastomeric Flashing Note: 45 mils.	23.92	
			LF	25" Hypalon Elastomeric Flashing Note: 45 mils.	31.78	
			LF	38" Hypalon Elastomeric Flashing Note: 45 mils.	46.57	
			LF	60-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	76.76	
			LF	12" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	11.74	
			LF	18" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	19.18	
			LF	24" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	25.57	
			LF	36" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	37.32	
			LF	60" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	62.85	
			LF	4" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.45	
			LF	6" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.59	
			LF	12" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	5.04	
			LF	36" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	13.01	
07 51 13 00-0113				Cold Applied Adhesives (07 51 13 00-0077)		
			SQ	BURmastic Inter-Ply Cold Applied Adhesive.....	145.05	
			SQ	BURmastic Flood Coat Cold Applied Adhesive	238.93	
			SQ	BURmastic SF Inter-Ply Cold Applied Adhesive	184.14	
			SQ	BURmastic LV Inter-Ply Cold Applied Adhesive	145.05	
			SQ	POWERply Standard Inter-Ply Cold Applied Adhesive.....	74.61	
			SQ	POWERply Standard Flood Coat Cold Applied Adhesive.....	164.37	
			SQ	POWERply White On White Cold Applied Adhesive.....	162.24	
			SQ	Rock-It Cold Applied Adhesive For Gravel Applications	446.72	
			SQ	FAS-n-FREE Cold Applied Adhesive (Beads 12" OC)..... Note: For insulation only.	246.62	
			SQ	ECOLastic Cold Applied Adhesive.....	278.59	
07 51 13 00-0124				Hot Applied Adhesives (07 51 13 00-0077)		
			SQ	Premium III Asphalt Inter-Ply Hot Applied Adhesive	53.86	
			SQ	Premium III Asphalt Flood Coat Hot Applied Adhesive.....	98.06	
07 51 13 00-0127				Flashings Adhesives (07 51 13 00-0077)		
			LF	Sheeting Bond Flashing Adhesive..... Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.	18.53	
			LF	Polyroof SF Flashing Mastic..... Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.	24.12	
			LF	ELS Flashing Mastic..... Note: Used for repairing flashings and asphalt built-up roof defects.	15.17	
			LF	TremSEAL D General Purpose Sealant	5.82	
			LF	TremSEAL HP High Performance Sealant	5.96	
			LF	TremSEAL S Silicone Sealant	5.84	
07 51 13 00-0134				Surfacing (07 51 13 00-0077)		
			SQ	TremLastic SP Non Fibered Elastomeric Emulsion Cold Applied Coating.....	215.12	
			SQ	ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating.....	482.15	
			SQ	Polar Coat.....	125.58	
			SQ	Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating.....	153.20	
			SQ	Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls.....	440.73	
			SQ	Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls.....	202.47	
			SQ	100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB).....	56.67	
07 51 13 00-0142				Walkway Protection Pads (07 51 13 00-0077)		
			LF	36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®)	28.76	
07 51 13 00-0144				Primer (07 51 13 00-0077)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0145 SQ TREMprime WB Primer Note: Water based polymer modified asphalt primer.	33.25	
07 51 13 00-0146 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating.....	71.74	
07 51 13 00-0147 Liquid Applied Roofing (07 51 13 00-0077)		
07 51 13 00-0148 SQ Trem-LAR LRM H Waterproofing (Horizontal) Note: One part liquid applied elastomeric roofing membrane. 60 mils.	366.93	
07 51 13 00-0149 SQ Trem-LAR LRM V Waterproofing (Vertical)..... Note: One part liquid applied elastomeric roofing membrane. 60 mils.	374.30	
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces.....	465.87	
Note: Two part liquid applied polyurethane roof coating. 48 mils.		
07 51 13 00-0151 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces Note: Two part liquid applied polyurethane roof coating. 64 mils.	604.30	
07 51 13 00-0152 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating..... Note: Two part liquid applied polyurethane roof coating. 32 mils.	354.89	
07 51 13 00-0153 SQ AlphaGuard Glass Mat..... Note: Reinforcement mat for AlphaGuard systems.	68.28	
07 51 13 00-0154 SQ AlphaGuard C-Prime Primer Note: 100% solids epoxy primer for concrete surfaces.	70.77	
07 51 13 00-0155 SQ AlphaGuard M-Prime Primer..... Note: Water based primer for metal and plastic surfaces.	75.84	
07 51 13 00-0156 SQ Geogard Primer Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.	56.66	
07 51 13 00-0157 SQ AlphaGuard Primer WB Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.	51.25	
07 51 13 00-0158 Atactic-Polypropylene (APP) Products (07 51 13 00-0077)		
07 51 13 00-0159 SQ POWERply Atactic-Polypropylene (APP) Base Sheet 07 51 13 00-0160 SQ POWERply Atactic-Polypropylene (APP) FR..... 07 51 13 00-0161 SQ POWERply Atactic-Polypropylene (APP) Smooth.....	189.53 357.72 286.71	
07 51 13 00-0162 Tri-Polymer Alloy (TPA) White Membrane (07 51 13 00-0077)		
07 51 13 00-0163 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane..... 07 51 13 00-0164 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane..... 07 51 13 00-0165 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane.....	504.82 688.45 780.44	
07 51 13 00-0166 Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane (07 51 13 00-0077)		
07 51 13 00-0167 SQ 45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane 07 51 13 00-0168 SQ 60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane 07 51 13 00-0169 SQ 80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	578.37 707.05 862.76	
07 51 13 00-0170 Tri-Polymer Alloy (TPA) Membrane Accessories (07 51 13 00-0077)		
07 51 13 00-0171 EA >1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) 07 51 13 00-0172 EA >4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) 07 51 13 00-0173 LF 36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco) 07 51 13 00-0174 SQ Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco).....	103.82 117.87 17.74 61.70	
07 51 13 00-0175 Thermoplastic Polyolefin (TPO) Polyester White Membrane (07 51 13 00-0077)		
07 51 13 00-0176 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane..... 07 51 13 00-0177 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane..... 07 51 13 00-0178 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	275.01 277.57 489.91	
07 51 13 00-0179 Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane (07 51 13 00-0077)		
07 51 13 00-0180 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane 07 51 13 00-0181 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane 07 51 13 00-0182 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	317.45 356.00 514.20	
07 51 13 00-0183 Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510) (07 51 13 00-0077)		
07 51 13 00-0184 SQ 45 Mil Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510)	838.10	
07 51 13 00-0185 Single Ply Adhesives (07 51 13 00-0077)		
07 51 13 00-0186 SQ Low VOC, TPA Bonding Adhesive (Tremco) 07 51 13 00-0187 SQ Water Based, TPA Bonding Adhesive (Tremco) 07 51 13 00-0188 SQ Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco) 07 51 13 00-0189 SQ Low VOC, TPO Bonding Adhesive (Tremco).....	138.36 155.82 135.82 91.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0190			Warranty (Tremco) <small>(07 51 13 00-0077)</small>		
07 51 13 00-0191	EA		Up To 10,000 SF 15 Year Roofing System Warranty	1,500.00	
07 51 13 00-0192	SF		>10,000 SF 15 Year Roofing System Warranty	0.15	
07 51 13 00-0193	EA		Up To 10,000 SF 20 Year Roofing System Warranty	2,000.00	
07 51 13 00-0194	SF		>10,000 SF 20 Year Roofing System Warranty	0.20	
07 51 13 00-0195			Built-Up Roofing Components (Garland) <small>(07 51 13)</small>		
			Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0196			Modified Cap Membranes <small>(07 51 13 00-0195)</small>		
07 51 13 00-0197			Modified Cap Membranes, Hot/Cold Applied <small>(07 51 13 00-0196)</small>		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0198	SQ		Stressply® FR Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane, Minimum 145 Mil	584.03	
07 51 13 00-0199	SQ		Stressply® Plus Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane With Recycled Rubber, 105 Mil	418.28	
07 51 13 00-0200	SQ		Stressply® Plus FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil	517.49	
07 51 13 00-0201	SQ		Stressply® E Eco-Responsible, Smooth Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials	537.69	
07 51 13 00-0202	SQ		Stressply® E FR Mineral Eco-Responsible, Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil	748.00	
07 51 13 00-0203	SQ		Stressply® EUV Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Modified Membrane With Recycled Rubber, 160 Mil	840.67	
07 51 13 00-0204	SQ		Versiply® III 80 Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 80 Mil	353.14	
			Note: Low strength cap sheet for hot or cold modified systems used with gravel.		
07 51 13 00-0205	SQ		Versiply® III Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Minimum 145 Mil	446.20	
07 51 13 00-0206	SQ		BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 140 Mil	273.49	
07 51 13 00-0207			Modified Cap Membranes, Self-Adhering <small>(07 51 13 00-0196)</small>		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.		
07 51 13 00-0208	SQ		Stressply® SA FR Mineral Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil	528.78	
			Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.		
07 51 13 00-0209			Modified Cap Membranes, Torch-Applied <small>(07 51 13 00-0196)</small>		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0210	SQ		Stressply® IV Dual Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil	650.58	
			Note: Smooth surfaced Styrene-Butadiene-Styrene (SBS) torch modified top ply of torch system with gravel.		
07 51 13 00-0211	SQ		Stressply® IV Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Minimum 195 Mil	707.61	
07 51 13 00-0212	SQ		Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil	745.62	
07 51 13 00-0213			Modified Cap Membranes, Coal Tar Pitch Systems <small>(07 51 13 00-0196)</small>		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0214	SQ		Millennium® Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 120 Mil	598.44	
07 51 13 00-0215	SQ		Millennium® FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil	947.61	
07 51 13 00-0216	SQ		Millennium® Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 160 Mil	771.77	
07 51 13 00-0217			Base Ply <small>(07 51 13 00-0195)</small>		
			Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems.		
07 51 13 00-0218	SQ		Flexbase® E120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil	534.12	
07 51 13 00-0219	SQ		Flexbase® 80 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil	336.29	
07 51 13 00-0220	SQ		HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil	77.49	
			Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.		
07 51 13 00-0221	SQ		HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil	51.59	
			Note: Inner ply felts for hot applied built up and modified BUR systems.		
07 51 13 00-0222	SQ		HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil	62.63	
07 51 13 00-0223	SQ		HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil	67.98	
07 51 13 00-0224	SQ		HPR® Tribase Premium Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet, 60 Mil	104.75	
			Note: Inner plies for cold applied modified, Styrene-Butadiene-Styrene (SBS) modified, or 2 plies under cap sheet.		
07 51 13 00-0225	SQ		Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil	339.42	
07 51 13 00-0226	SQ		HPR® SA FR Base Sheet Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil	294.12	
			Note: Self adhering base ply for self adhering 2 ply system.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0227 SQ StressBase® 120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil.....	297.89	
07 51 13 00-0228 SQ StressBase® 80 Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil.....	247.40	
07 51 13 00-0229 LF Garmesh® 6" Styrene-Butadiene-Styrene (SBS) Coated Woven Fiberglass Reinforcing Fabric.....	4.91	
07 51 13 00-0230 LF Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems.....	13.10	
07 51 13 00-0231 SQ Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	59.96	
07 51 13 00-0232 LF Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	6.37	
07 51 13 00-0233 LF Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	4.67	
07 51 13 00-0234 LF Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems.....	5.37	
07 51 13 00-0235 SQ HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications.....	130.01	
07 51 13 00-0236 Coatings And Mastics For Roof Installation, Restoration And Repairs (07 51 13 00-0195)		
07 51 13 00-0237 SQ Water Based Roof Primer, GarlaPrime VOC Primer.....	38.98	
07 51 13 00-0238 SQ Black-Knight® Primer.....	36.19	
07 51 13 00-0239 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply.....	143.84	
07 51 13 00-0240 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ).....	153.34	
07 51 13 00-0241 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ).....	244.07	
07 51 13 00-0242 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply.....	388.72	
07 51 13 00-0243 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat.....	401.37	
07 51 13 00-0244 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ).....	188.34	
07 51 13 00-0245 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration.....	311.09	
07 51 13 00-0246 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ).....	476.27	
07 51 13 00-0247 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration.....	791.11	
07 51 13 00-0248 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Interply.....	332.23	
07 51 13 00-0249 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Flood Coat.....	344.88	
07 51 13 00-0250 SQ Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only.....	725.52	
07 51 13 00-0251 SQ Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only.....	315.61	
07 51 13 00-0252 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply.....	155.63	
07 51 13 00-0253 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat.....	168.28	
07 51 13 00-0254 SQ Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel.....	146.73	
07 51 13 00-0255 SQ Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers.....	137.29	
07 51 13 00-0256 SQ Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products.....	18.43	
Note: Adheres all insulation layers for cold systems.		
07 51 13 00-0257 SQ Pyramic® Plus LO White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required.....	162.99	
07 51 13 00-0258 SQ Pyramic® Plus LO Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System.....	158.05	
07 51 13 00-0259 LF Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh.....	21.16	
07 51 13 00-0260 SQ Solex® White, Kynar® Acrylic Topcoat Roof Coating Used With Pyramic Base Coat.....	210.54	
07 51 13 00-0261 SQ Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric.....	1,222.13	
07 51 13 00-0262 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ).....	270.61	
07 51 13 00-0263 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel.....	329.31	
07 51 13 00-0264 SQ Weatherking® Cold Applied Rubber Modified Asphalt Interply Adhesive For Slopes Up To 3:12, Interply.....	123.72	
07 51 13 00-0265 SQ Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System.....	424.69	
07 51 13 00-0266 SQ Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply.....	122.81	
Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.		
07 52 Modified Bituminous Membrane Roofing (07 50)		
07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing (07 52)		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)		
07 52 13 11-0001 Cold Adhesive Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 11)		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 13 11-0002 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 11-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied	190.74	
<i>For Up To 10, Add</i>	45.02	
<i>For >10 To 20, Add</i>	24.23	
<i>For >20 To 40, Add</i>	12.97	
<i>For >75 To 100, Deduct</i>	-6.49	
<i>For >100 To 200, Deduct</i>	-13.83	
<i>For >200, Deduct</i>	-20.32	
07 52 13 11-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied	232.11	
<i>For Up To 10, Add</i>	53.29	
<i>For >10 To 20, Add</i>	28.36	
<i>For >20 To 40, Add</i>	15.04	
<i>For >75 To 100, Deduct</i>	-7.52	
<i>For >100 To 200, Deduct</i>	-15.90	
<i>For >200, Deduct</i>	-23.42	
07 52 13 11-0005 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied	364.22	
<i>For Up To 10, Add</i>	79.71	
<i>For >10 To 20, Add</i>	41.57	
<i>For >20 To 40, Add</i>	21.65	
<i>For >75 To 100, Deduct</i>	-10.82	
<i>For >100 To 200, Deduct</i>	-22.50	
<i>For >200, Deduct</i>	-33.33	
07 52 13 11-0006 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	367.50	
<i>For Up To 10, Add</i>	81.03	
<i>For >10 To 20, Add</i>	42.39	
<i>For >20 To 40, Add</i>	22.14	
<i>For >75 To 100, Deduct</i>	-11.07	
<i>For >100 To 200, Deduct</i>	-23.08	
<i>For >200, Deduct</i>	-34.15	
07 52 13 11-0007 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	263.16	
<i>For Up To 10, Add</i>	60.16	
<i>For >10 To 20, Add</i>	31.96	
<i>For >20 To 40, Add</i>	16.92	
<i>For >75 To 100, Deduct</i>	-8.46	
<i>For >100 To 200, Deduct</i>	-17.86	
<i>For >200, Deduct</i>	-26.32	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 13 11-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	305.00	
<i>For Up To 10, Add</i>	68.53	
<i>For >10 To 20, Add</i>	36.14	
<i>For >20 To 40, Add</i>	19.01	
<i>For >75 To 100, Deduct</i>	-9.51	
<i>For >100 To 200, Deduct</i>	-19.95	
<i>For >200, Deduct</i>	-29.46	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 13 11-0009 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	419.03	
<i>For Up To 10, Add</i>	91.33	
<i>For >10 To 20, Add</i>	47.55	
<i>For >20 To 40, Add</i>	24.71	
<i>For >75 To 100, Deduct</i>	-12.36	
<i>For >100 To 200, Deduct</i>	-25.66	
<i>For >200, Deduct</i>	-38.01	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
 07 52 13 11-0010 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 11-0001)</small>		
07 52 13 11-0011 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	7.65	
07 52 13 11-0012 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	8.17	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
 07 52 13 13 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 13-0001 Torch-Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 13)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.		
07 52 13 13-0002 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 13 13-0001)</small>		
07 52 13 13-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Torch-Applied	137.73	
<i>For Up To 10, Add</i>	34.41	
<i>For >10 To 20, Add</i>	18.92	
<i>For >20 To 40, Add</i>	10.32	
<i>For >75 To 100, Deduct</i>	-5.16	
<i>For >100 To 200, Deduct</i>	-11.18	
<i>For >200, Deduct</i>	-16.34	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	179.11	
For Up To 10, Add	42.69	
For >10 To 20, Add	23.06	
For >20 To 40, Add	12.39	
For >75 To 100, Deduct	-6.19	
For >100 To 200, Deduct	-13.25	
For >200, Deduct	-19.44	
07 52 13 13-0005 SQ 150 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	215.76	
For Up To 10, Add	53.46	
For >10 To 20, Add	29.31	
For >20 To 40, Add	15.94	
For >75 To 100, Deduct	-7.97	
For >100 To 200, Deduct	-17.23	
For >200, Deduct	-25.20	
07 52 13 13-0006 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	226.36	
For Up To 10, Add	55.58	
For >10 To 20, Add	30.37	
For >20 To 40, Add	16.47	
For >75 To 100, Deduct	-8.24	
For >100 To 200, Deduct	-17.76	
For >200, Deduct	-26.00	
07 52 13 13-0007 SQ 180 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	312.30	
For Up To 10, Add	72.77	
For >10 To 20, Add	38.96	
For >20 To 40, Add	20.77	
For >75 To 100, Deduct	-10.39	
For >100 To 200, Deduct	-22.06	
For >200, Deduct	-32.44	
07 52 13 13-0008 SQ 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	215.76	
For Up To 10, Add	53.46	
For >10 To 20, Add	29.31	
For >20 To 40, Add	15.94	
For >75 To 100, Deduct	-7.97	
For >100 To 200, Deduct	-17.23	
For >200, Deduct	-25.20	
07 52 13 13-0009 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	229.00	
For Up To 10, Add	56.11	
For >10 To 20, Add	30.63	
For >20 To 40, Add	16.61	
For >75 To 100, Deduct	-8.30	
For >100 To 200, Deduct	-17.89	
For >200, Deduct	-26.20	
07 52 13 13-0010 SQ 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	312.30	
For Up To 10, Add	72.77	
For >10 To 20, Add	38.96	
For >20 To 40, Add	20.77	
For >75 To 100, Deduct	-10.39	
For >100 To 200, Deduct	-22.06	
For >200, Deduct	-32.44	
07 52 13 13-0011 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	224.11	
For Up To 10, Add	55.13	
For >10 To 20, Add	30.14	
For >20 To 40, Add	16.36	
For >75 To 100, Deduct	-8.18	
For >100 To 200, Deduct	-17.65	
For >200, Deduct	-25.83	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0012 SQ 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	236.95	
For Up To 10, Add	57.70	
For >10 To 20, Add	31.43	
For >20 To 40, Add	17.00	
For >75 To 100, Deduct	-8.50	
For >100 To 200, Deduct	-18.29	
For >200, Deduct	-26.79	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0013 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	268.47	
For Up To 10, Add	64.00	
For >10 To 20, Add	34.58	
For >20 To 40, Add	18.58	
For >75 To 100, Deduct	-9.29	
For >100 To 200, Deduct	-19.87	
For >200, Deduct	-29.16	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0014 SQ 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	272.31	
For Up To 10, Add	64.77	
For >10 To 20, Add	34.96	
For >20 To 40, Add	18.77	
For >75 To 100, Deduct	-9.39	
For >100 To 200, Deduct	-20.06	
For >200, Deduct	-29.44	
For Factory Applied White Reflective Surfacing, Add	84.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0015 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	379.97	
<i>For Up To 10, Add</i>	86.30	
<i>For >10 To 20, Add</i>	45.73	
<i>For >20 To 40, Add</i>	24.15	
<i>For >75 To 100, Deduct</i>	-12.08	
<i>For >100 To 200, Deduct</i>	-25.44	
<i>For >200, Deduct</i>	-37.52	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 13 13-0016 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 13-0001)</small>		
07 52 13 13-0017 SF 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.18	
07 52 13 13-0018 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.31	
07 52 13 13-0019 SF 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.15	
07 52 13 13-0020 SF 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied.....	3.39	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 13 13-0021 SF 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.75	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 13 13-0022 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied.....	4.82	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 13 14 Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 14-0001 Mechanically Fastened Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 14)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002 Mechanically Fastened, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 13 14-0001)</small>		
07 52 13 14-0003 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	203.19	
<i>For Up To 10, Add</i>	44.07	
<i>For >10 To 20, Add</i>	22.89	
<i>For >20 To 40, Add</i>	11.88	
<i>For >75 To 100, Deduct</i>	-5.94	
<i>For >100 To 200, Deduct</i>	-12.30	
<i>For >200, Deduct</i>	-18.24	
07 52 16 Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52)</small>		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11 Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52 16)</small>		
07 52 16 11-0001 Cold Adhesive Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 11)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 11-0001)</small>		
07 52 16 11-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	150.23	
<i>For Up To 10, Add</i>	36.92	
<i>For >10 To 20, Add</i>	20.18	
<i>For >20 To 40, Add</i>	10.95	
<i>For >75 To 100, Deduct</i>	-5.47	
<i>For >100 To 200, Deduct</i>	-11.81	
<i>For >200, Deduct</i>	-17.28	
07 52 16 11-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	196.17	
<i>For Up To 10, Add</i>	46.10	
<i>For >10 To 20, Add</i>	24.77	
<i>For >20 To 40, Add</i>	13.24	
<i>For >75 To 100, Deduct</i>	-6.62	
<i>For >100 To 200, Deduct</i>	-14.10	
<i>For >200, Deduct</i>	-20.72	
07 52 16 11-0005 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	202.09	
<i>For Up To 10, Add</i>	47.29	
<i>For >10 To 20, Add</i>	25.36	
<i>For >20 To 40, Add</i>	13.54	
<i>For >75 To 100, Deduct</i>	-6.77	
<i>For >100 To 200, Deduct</i>	-14.40	
<i>For >200, Deduct</i>	-21.17	
07 52 16 11-0006 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	275.37	
<i>For Up To 10, Add</i>	61.94	
<i>For >10 To 20, Add</i>	32.69	
<i>For >20 To 40, Add</i>	17.20	
<i>For >75 To 100, Deduct</i>	-8.60	
<i>For >100 To 200, Deduct</i>	-18.06	
<i>For >200, Deduct</i>	-26.66	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0007 SQ 125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	349.53	
For Up To 10, Add	76.78	
For >10 To 20, Add	40.11	
For >20 To 40, Add	20.91	
For >75 To 100, Deduct	-10.46	
For >100 To 200, Deduct	-21.77	
For >200, Deduct	-32.23	
07 52 16 11-0008 SQ 140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	291.34	
For Up To 10, Add	65.79	
For >10 To 20, Add	34.78	
For >20 To 40, Add	18.33	
For >75 To 100, Deduct	-9.17	
For >100 To 200, Deduct	-19.27	
For >200, Deduct	-28.44	
07 52 16 11-0009 SQ 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	299.31	
For Up To 10, Add	67.39	
For >10 To 20, Add	35.58	
For >20 To 40, Add	18.73	
For >75 To 100, Deduct	-9.36	
For >100 To 200, Deduct	-19.67	
For >200, Deduct	-29.03	
07 52 16 11-0010 SQ 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	261.96	
For Up To 10, Add	59.92	
For >10 To 20, Add	31.84	
For >20 To 40, Add	16.86	
For >75 To 100, Deduct	-8.43	
For >100 To 200, Deduct	-17.80	
For >200, Deduct	-26.23	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0011 SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	265.41	
For Up To 10, Add	60.61	
For >10 To 20, Add	32.19	
For >20 To 40, Add	17.03	
For >75 To 100, Deduct	-8.52	
For >100 To 200, Deduct	-17.97	
For >200, Deduct	-26.49	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0012 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	297.19	
For Up To 10, Add	66.96	
For >10 To 20, Add	35.36	
For >20 To 40, Add	18.62	
For >75 To 100, Deduct	-9.31	
For >100 To 200, Deduct	-19.56	
For >200, Deduct	-28.87	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0013 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	302.49	
For Up To 10, Add	68.02	
For >10 To 20, Add	35.89	
For >20 To 40, Add	18.89	
For >75 To 100, Deduct	-9.44	
For >100 To 200, Deduct	-19.83	
For >200, Deduct	-29.27	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	348.84	
For Up To 10, Add	77.29	
For >10 To 20, Add	40.53	
For >20 To 40, Add	21.21	
For >75 To 100, Deduct	-10.60	
For >100 To 200, Deduct	-22.15	
For >200, Deduct	-32.75	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	433.27	
For Up To 10, Add	94.18	
For >10 To 20, Add	48.97	
For >20 To 40, Add	25.43	
For >75 To 100, Deduct	-12.71	
For >100 To 200, Deduct	-26.37	
For >200, Deduct	-39.08	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	267.71	
For Up To 10, Add	61.07	
For >10 To 20, Add	32.42	
For >20 To 40, Add	17.15	
For >75 To 100, Deduct	-8.57	
For >100 To 200, Deduct	-18.09	
For >200, Deduct	-26.66	
For Factory Applied White Reflective Surfacing, Add	84.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	276.00	
<i>For Up To 10, Add</i>	62.73	
<i>For >10 To 20, Add</i>	33.24	
<i>For >20 To 40, Add</i>	17.56	
<i>For >75 To 100, Deduct</i>	-8.78	
<i>For >100 To 200, Deduct</i>	-18.50	
<i>For >200, Deduct</i>	-27.29	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	321.03	
<i>For Up To 10, Add</i>	71.73	
<i>For >10 To 20, Add</i>	37.75	
<i>For >20 To 40, Add</i>	19.81	
<i>For >75 To 100, Deduct</i>	-9.91	
<i>For >100 To 200, Deduct</i>	-20.76	
<i>For >200, Deduct</i>	-30.66	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	322.09	
<i>For Up To 10, Add</i>	71.94	
<i>For >10 To 20, Add</i>	37.85	
<i>For >20 To 40, Add</i>	19.87	
<i>For >75 To 100, Deduct</i>	-9.93	
<i>For >100 To 200, Deduct</i>	-20.81	
<i>For >200, Deduct</i>	-30.74	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	342.22	
<i>For Up To 10, Add</i>	75.97	
<i>For >10 To 20, Add</i>	39.87	
<i>For >20 To 40, Add</i>	20.87	
<i>For >75 To 100, Deduct</i>	-10.44	
<i>For >100 To 200, Deduct</i>	-21.81	
<i>For >200, Deduct</i>	-32.25	
<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0021 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 11-0001)		
07 52 16 11-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.97	
07 52 16 11-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.60	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.63	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0025 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.00	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0026 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.47	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0027 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	8.31	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0028 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.65	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0029 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.74	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0030 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.20	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0031 SF 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.40	
<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0032 SF 145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	9.05	
07 52 16 11-0033 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	15.00	
07 52 16 12 Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 12-0001 Hot-Mopped Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 12)		
Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.		
07 52 16 12-0002 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 12-0001)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0003	SQ		50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	123.25	
			<i>For Up To 10, Add</i>	31.64	
			<i>For >10 To 20, Add</i>	17.57	
			<i>For >20 To 40, Add</i>	9.66	
			<i>For >75 To 100, Deduct</i>	-4.83	
			<i>For >100 To 200, Deduct</i>	-10.53	
			<i>For >200, Deduct</i>	-15.36	
07 52 16 12-0004	SQ		80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	169.19	
			<i>For Up To 10, Add</i>	40.83	
			<i>For >10 To 20, Add</i>	22.16	
			<i>For >20 To 40, Add</i>	11.96	
			<i>For >75 To 100, Deduct</i>	-5.98	
			<i>For >100 To 200, Deduct</i>	-12.83	
			<i>For >200, Deduct</i>	-18.81	
07 52 16 12-0005	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	175.12	
			<i>For Up To 10, Add</i>	42.02	
			<i>For >10 To 20, Add</i>	22.76	
			<i>For >20 To 40, Add</i>	12.25	
			<i>For >75 To 100, Deduct</i>	-6.13	
			<i>For >100 To 200, Deduct</i>	-13.13	
			<i>For >200, Deduct</i>	-19.25	
07 52 16 12-0006	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Hot-Mopped.....	248.40	
			<i>For Up To 10, Add</i>	56.67	
			<i>For >10 To 20, Add</i>	30.09	
			<i>For >20 To 40, Add</i>	15.92	
			<i>For >75 To 100, Deduct</i>	-7.96	
			<i>For >100 To 200, Deduct</i>	-16.79	
			<i>For >200, Deduct</i>	-24.75	
07 52 16 12-0007	SQ		125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Hot-Mopped.....	322.56	
			<i>For Up To 10, Add</i>	71.51	
			<i>For >10 To 20, Add</i>	37.50	
			<i>For >20 To 40, Add</i>	19.63	
			<i>For >75 To 100, Deduct</i>	-9.81	
			<i>For >100 To 200, Deduct</i>	-20.50	
			<i>For >200, Deduct</i>	-30.31	
07 52 16 12-0008	SQ		140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	264.42	
			<i>For Up To 10, Add</i>	60.55	
			<i>For >10 To 20, Add</i>	32.19	
			<i>For >20 To 40, Add</i>	17.05	
			<i>For >75 To 100, Deduct</i>	-8.53	
			<i>For >100 To 200, Deduct</i>	-18.01	
			<i>For >200, Deduct</i>	-26.54	
07 52 16 12-0009	SQ		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	272.40	
			<i>For Up To 10, Add</i>	62.14	
			<i>For >10 To 20, Add</i>	32.99	
			<i>For >20 To 40, Add</i>	17.45	
			<i>For >75 To 100, Deduct</i>	-8.73	
			<i>For >100 To 200, Deduct</i>	-18.41	
			<i>For >200, Deduct</i>	-27.13	
07 52 16 12-0010	SQ		125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	235.05	
			<i>For Up To 10, Add</i>	54.67	
			<i>For >10 To 20, Add</i>	29.25	
			<i>For >20 To 40, Add</i>	15.58	
			<i>For >75 To 100, Deduct</i>	-7.79	
			<i>For >100 To 200, Deduct</i>	-16.54	
			<i>For >200, Deduct</i>	-24.33	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 12-0011	SQ		140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	238.49	
			<i>For Up To 10, Add</i>	55.36	
			<i>For >10 To 20, Add</i>	29.60	
			<i>For >20 To 40, Add</i>	15.76	
			<i>For >75 To 100, Deduct</i>	-7.88	
			<i>For >100 To 200, Deduct</i>	-16.71	
			<i>For >200, Deduct</i>	-24.59	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 12-0012	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	270.28	
			<i>For Up To 10, Add</i>	61.72	
			<i>For >10 To 20, Add</i>	32.77	
			<i>For >20 To 40, Add</i>	17.35	
			<i>For >75 To 100, Deduct</i>	-8.67	
			<i>For >100 To 200, Deduct</i>	-18.30	
			<i>For >200, Deduct</i>	-26.98	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 12-0013	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	275.57	
			<i>For Up To 10, Add</i>	62.78	
			<i>For >10 To 20, Add</i>	33.30	
			<i>For >20 To 40, Add</i>	17.61	
			<i>For >75 To 100, Deduct</i>	-8.80	
			<i>For >100 To 200, Deduct</i>	-18.57	
			<i>For >200, Deduct</i>	-27.37	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	321.92	
For Up To 10, Add	72.05	
For >10 To 20, Add	37.94	
For >20 To 40, Add	19.93	
For >75 To 100, Deduct	-9.96	
For >100 To 200, Deduct	-20.88	
For >200, Deduct	-30.85	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	406.36	
For Up To 10, Add	88.93	
For >10 To 20, Add	46.38	
For >20 To 40, Add	24.15	
For >75 To 100, Deduct	-12.07	
For >100 To 200, Deduct	-25.11	
For >200, Deduct	-37.18	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	240.80	
For Up To 10, Add	55.82	
For >10 To 20, Add	29.83	
For >20 To 40, Add	15.87	
For >75 To 100, Deduct	-7.94	
For >100 To 200, Deduct	-16.83	
For >200, Deduct	-24.76	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	249.09	
For Up To 10, Add	57.48	
For >10 To 20, Add	30.66	
For >20 To 40, Add	16.29	
For >75 To 100, Deduct	-8.14	
For >100 To 200, Deduct	-17.24	
For >200, Deduct	-25.39	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	294.11	
For Up To 10, Add	66.48	
For >10 To 20, Add	35.16	
For >20 To 40, Add	18.54	
For >75 To 100, Deduct	-9.27	
For >100 To 200, Deduct	-19.49	
For >200, Deduct	-28.76	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	295.17	
For Up To 10, Add	66.70	
For >10 To 20, Add	35.26	
For >20 To 40, Add	18.59	
For >75 To 100, Deduct	-9.29	
For >100 To 200, Deduct	-19.55	
For >200, Deduct	-28.84	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	315.30	
For Up To 10, Add	70.72	
For >10 To 20, Add	37.28	
For >20 To 40, Add	19.60	
For >75 To 100, Deduct	-9.80	
For >100 To 200, Deduct	-20.55	
For >200, Deduct	-30.35	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0021 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 12-0001)</small>		
07 52 16 12-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.51	
07 52 16 12-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.13	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.17	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0025 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.49	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0026 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.54	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0027 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.00	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0028 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.85	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0029 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.19	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 12-0030 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.27	
For Factory Applied White Reflective Surfacing, Add	0.84	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0031	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	4.65	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 12-0032	SF		170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	4.94	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 12-0033	SF		145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	6.59	
07 52 16 12-0034	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	12.54	

07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 13)

Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.

07 52 16 13-0002 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 13-0001)

07 52 16 13-0003	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	252.84	
			<i>For Up To 10, Add</i>	60.88	
			<i>For >10 To 20, Add</i>	33.02	
			<i>For >20 To 40, Add</i>	17.80	
			<i>For >75 To 100, Deduct</i>	-8.90	
			<i>For >100 To 200, Deduct</i>	-19.09	
			<i>For >200, Deduct</i>	-27.98	
07 52 16 13-0004	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	227.15	
			<i>For Up To 10, Add</i>	55.74	
			<i>For >10 To 20, Add</i>	30.45	
			<i>For >20 To 40, Add</i>	16.51	
			<i>For >75 To 100, Deduct</i>	-8.26	
			<i>For >100 To 200, Deduct</i>	-17.80	
			<i>For >200, Deduct</i>	-26.06	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0005	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	257.34	
			<i>For Up To 10, Add</i>	61.78	
			<i>For >10 To 20, Add</i>	33.47	
			<i>For >20 To 40, Add</i>	18.02	
			<i>For >75 To 100, Deduct</i>	-9.01	
			<i>For >100 To 200, Deduct</i>	-19.31	
			<i>For >200, Deduct</i>	-28.32	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0006	SQ		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	394.22	
			<i>For Up To 10, Add</i>	89.15	
			<i>For >10 To 20, Add</i>	47.15	
			<i>For >20 To 40, Add</i>	24.87	
			<i>For >75 To 100, Deduct</i>	-12.43	
			<i>For >100 To 200, Deduct</i>	-26.15	
			<i>For >200, Deduct</i>	-38.59	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0007	SQ		150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	235.79	
			<i>For Up To 10, Add</i>	57.47	
			<i>For >10 To 20, Add</i>	31.31	
			<i>For >20 To 40, Add</i>	16.94	
			<i>For >75 To 100, Deduct</i>	-8.47	
			<i>For >100 To 200, Deduct</i>	-18.23	
			<i>For >200, Deduct</i>	-26.71	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0008	SQ		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	271.38	
			<i>For Up To 10, Add</i>	64.59	
			<i>For >10 To 20, Add</i>	34.87	
			<i>For >20 To 40, Add</i>	18.72	
			<i>For >75 To 100, Deduct</i>	-9.36	
			<i>For >100 To 200, Deduct</i>	-20.01	
			<i>For >200, Deduct</i>	-29.37	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0009	SQ		165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	282.90	
			<i>For Up To 10, Add</i>	67.07	
			<i>For >10 To 20, Add</i>	36.16	
			<i>For >20 To 40, Add</i>	19.39	
			<i>For >75 To 100, Deduct</i>	-9.70	
			<i>For >100 To 200, Deduct</i>	-20.70	
			<i>For >200, Deduct</i>	-30.40	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 13-0010	SQ		180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	365.98	
			<i>For Up To 10, Add</i>	83.69	
			<i>For >10 To 20, Add</i>	44.47	
			<i>For >20 To 40, Add</i>	23.55	
			<i>For >75 To 100, Deduct</i>	-11.77	
			<i>For >100 To 200, Deduct</i>	-24.86	
			<i>For >200, Deduct</i>	-36.63	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 52 16 13-0011			Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 13-0001)</small>		
07 52 16 13-0012	SF		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.63	
07 52 16 13-0013	SF		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.61	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 13-0014	SF		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	4.97	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 13-0015	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	3.77	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 13-0016	SF		165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	3.84	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 13-0017	SF		180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.68	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 13-0018	SF		150 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.86	
07 52 16 13-0019	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	11.66	

07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 14-0001			Mechanically Fastened Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 14)</small>		
			Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 16 14-0002			Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 16 14-0001)</small>		
07 52 16 14-0003	SQ		35 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Mechanically Fastened	157.54	
			<i>For Up To 10, Add</i>	34.94	
			<i>For >10 To 20, Add</i>	18.33	
			<i>For >20 To 40, Add</i>	9.59	
			<i>For >75 To 100, Deduct</i>	-4.80	
			<i>For >100 To 200, Deduct</i>	-10.02	
			<i>For >200, Deduct</i>	-14.82	
07 52 16 14-0004	SQ		50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	121.30	
			<i>For Up To 10, Add</i>	27.69	
			<i>For >10 To 20, Add</i>	14.70	
			<i>For >20 To 40, Add</i>	7.78	
			<i>For >75 To 100, Deduct</i>	-3.89	
			<i>For >100 To 200, Deduct</i>	-8.21	
			<i>For >200, Deduct</i>	-12.10	
07 52 16 14-0005	SQ		80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	156.98	
			<i>For Up To 10, Add</i>	34.83	
			<i>For >10 To 20, Add</i>	18.27	
			<i>For >20 To 40, Add</i>	9.57	
			<i>For >75 To 100, Deduct</i>	-4.78	
			<i>For >100 To 200, Deduct</i>	-9.99	
			<i>For >200, Deduct</i>	-14.78	
07 52 16 14-0006	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	196.39	
			<i>For Up To 10, Add</i>	42.71	
			<i>For >10 To 20, Add</i>	22.21	
			<i>For >20 To 40, Add</i>	11.54	
			<i>For >75 To 100, Deduct</i>	-5.77	
			<i>For >100 To 200, Deduct</i>	-11.96	
			<i>For >200, Deduct</i>	-17.73	
07 52 16 14-0007	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	246.45	
			<i>For Up To 10, Add</i>	52.72	
			<i>For >10 To 20, Add</i>	27.22	
			<i>For >20 To 40, Add</i>	14.04	
			<i>For >75 To 100, Deduct</i>	-7.02	
			<i>For >100 To 200, Deduct</i>	-14.47	
			<i>For >200, Deduct</i>	-21.49	
07 52 16 14-0008			Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 14-0001)</small>		
07 52 16 14-0009	SF		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....	3.12	
07 52 16 14-0010	SF		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....	3.19	

07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 15-0001			Self-Adhering Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 15)</small>		
			Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 15-0002			Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 15-0001)		
07 52 16 15-0003	SQ		60 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	126.47	
			For Up To 10, Add	29.42	
			For >10 To 20, Add	15.74	
			For >20 To 40, Add	8.39	
			For >75 To 100, Deduct	-4.19	
			For >100 To 200, Deduct	-8.90	
			For >200, Deduct	-13.09	
07 52 16 15-0004	SQ		70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	133.98	
			For Up To 10, Add	30.92	
			For >10 To 20, Add	16.49	
			For >20 To 40, Add	8.76	
			For >75 To 100, Deduct	-4.38	
			For >100 To 200, Deduct	-9.28	
			For >200, Deduct	-13.66	
07 52 16 15-0005	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	225.78	
			For Up To 10, Add	49.59	
			For >10 To 20, Add	25.90	
			For >20 To 40, Add	13.51	
			For >75 To 100, Deduct	-6.75	
			For >100 To 200, Deduct	-14.06	
			For >200, Deduct	-20.81	
07 52 16 15-0006	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	269.80	
			For Up To 10, Add	58.39	
			For >10 To 20, Add	30.30	
			For >20 To 40, Add	15.71	
			For >75 To 100, Deduct	-7.85	
			For >100 To 200, Deduct	-16.26	
			For >200, Deduct	-24.11	
			For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 15-0007	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	399.58	
			For Up To 10, Add	84.35	
			For >10 To 20, Add	43.28	
			For >20 To 40, Add	22.20	
			For >75 To 100, Deduct	-11.10	
			For >100 To 200, Deduct	-22.75	
			For >200, Deduct	-33.85	
			For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 15-0008			Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 15-0001)		
07 52 16 15-0009	SF		70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	3.59	
07 52 16 15-0010	SF		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	4.02	
			For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 15-0011	SF		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	5.31	
			For Factory Applied White Reflective Surfacing, Add	0.84	
07 53			Elastomeric Membrane Roofing (07 50)		
			Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.		
07 53 16			Chlorosulfonate-Polyethylene Roofing (07 53)		
07 53 16 00-0001			Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes (07 53 16)		
			Note: Includes hot air welding or adhesive bonding of seams.		
07 53 16 00-0002	SQ		45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered.....	514.28	82.47
			Note: Includes adhesive.		
			For Up To 10, Add	135.84	
			For >10 To 20, Add	76.17	
			For >20 To 40, Add	42.21	
			For >75 To 100, Deduct	-21.10	
			For >100 To 200, Deduct	-46.33	
			For >200, Deduct	-67.43	
			For 15 Year Warranty, Add	3.00	
07 53 16 00-0003	SQ		45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted.....	390.88	41.23
			Note: Includes ballast.		
			For Up To 10, Add	94.67	
			For >10 To 20, Add	51.46	
			For >20 To 40, Add	27.79	
			For >75 To 100, Deduct	-13.90	
			For >100 To 200, Deduct	-29.85	
			For >200, Deduct	-43.75	
			For 15 Year Warranty, Add	3.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 16 00-0004 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened.....	419.46	61.85
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	108.63	
<i>For >10 To 20, Add</i>	60.50	
<i>For >20 To 40, Add</i>	33.34	
<i>For >75 To 100, Deduct</i>	-16.67	
<i>For >100 To 200, Deduct</i>	-36.44	
<i>For >200, Deduct</i>	-53.11	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	30.93	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	31.96	
07 53 23 Ethylene-Propylene-Diene-Monomer Roofing (07 53)		
07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes (07 53 23)		
Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM).		
07 53 23 00-0002 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	212.46	41.23
Note: Includes ballast.		
<i>For Up To 10, Add</i>	58.99	
<i>For >10 To 20, Add</i>	33.62	
<i>For >20 To 40, Add</i>	18.87	
<i>For >75 To 100, Deduct</i>	-9.44	
<i>For >100 To 200, Deduct</i>	-20.93	
<i>For >200, Deduct</i>	-30.37	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
07 53 23 00-0003 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	237.59	43.81
Note: Includes ballast.		
<i>For Up To 10, Add</i>	65.04	
<i>For >10 To 20, Add</i>	36.90	
<i>For >20 To 40, Add</i>	20.64	
<i>For >75 To 100, Deduct</i>	-10.32	
<i>For >100 To 200, Deduct</i>	-22.83	
<i>For >200, Deduct</i>	-33.15	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
07 53 23 00-0004 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	346.57	46.39
Note: Includes ballast.		
<i>For Up To 10, Add</i>	87.87	
<i>For >10 To 20, Add</i>	48.57	
<i>For >20 To 40, Add</i>	26.61	
<i>For >75 To 100, Deduct</i>	-13.30	
<i>For >100 To 200, Deduct</i>	-28.93	
<i>For >200, Deduct</i>	-42.23	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
07 53 23 00-0005 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	254.80	61.85
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	75.70	
<i>For >10 To 20, Add</i>	44.04	
<i>For >20 To 40, Add</i>	25.11	
<i>For >75 To 100, Deduct</i>	-12.56	
<i>For >100 To 200, Deduct</i>	-28.20	
<i>For >200, Deduct</i>	-40.76	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Low VOC Adhesive, Add</i>	32.47	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	95.86	
07 53 23 00-0006 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	279.93	64.43
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	81.76	
<i>For >10 To 20, Add</i>	47.32	
<i>For >20 To 40, Add</i>	26.88	
<i>For >75 To 100, Deduct</i>	-13.44	
<i>For >100 To 200, Deduct</i>	-30.10	
<i>For >200, Deduct</i>	-43.54	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Low VOC Adhesive, Add</i>	32.47	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	105.79	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0007	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	388.91	67.00
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	104.58	
			For >10 To 20, Add	58.99	
			For >20 To 40, Add	32.85	
			For >75 To 100, Deduct	-16.42	
			For >100 To 200, Deduct	-36.20	
			For >200, Deduct	-52.62	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For Low VOC Adhesive, Add	32.47	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Integral Polyester Fleece-Backing, Add	116.63	
07 53 23 00-0008	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	336.51	82.47
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	100.29	
			For >10 To 20, Add	58.39	
			For >20 To 40, Add	33.32	
			For >75 To 100, Deduct	-16.66	
			For >100 To 200, Deduct	-37.44	
			For >200, Deduct	-54.10	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	6.77	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
			For Low VOC Adhesive, Add	81.17	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Integral Polyester Fleece-Backing, Add	95.86	
07 53 23 00-0009	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	361.65	85.04
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	106.35	
			For >10 To 20, Add	61.68	
			For >20 To 40, Add	35.09	
			For >75 To 100, Deduct	-17.55	
			For >100 To 200, Deduct	-39.34	
			For >200, Deduct	-56.89	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
			For Low VOC Adhesive, Add	81.17	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Integral Polyester Fleece-Backing, Add	105.79	
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	470.64	87.62
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	129.18	
			For >10 To 20, Add	73.35	
			For >20 To 40, Add	41.06	
			For >75 To 100, Deduct	-20.53	
			For >100 To 200, Deduct	-45.44	
			For >200, Deduct	-65.97	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For Low VOC Adhesive, Add	81.17	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Integral Polyester Fleece-Backing, Add	116.63	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	240.84	61.85
			Note: Includes fasteners.		
			For Up To 10, Add	72.91	
			For >10 To 20, Add	42.64	
			For >20 To 40, Add	24.41	
			For >75 To 100, Deduct	-12.21	
			For >100 To 200, Deduct	-27.50	
			For >200, Deduct	-39.71	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	6.77	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Mechanically Fastened To Concrete Decks, Add	30.93	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	31.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0012 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened 265.97		64.43
Note: Includes fasteners.		
For Up To 10, Add	78.96	
For >10 To 20, Add	45.92	
For >20 To 40, Add	26.18	
For >75 To 100, Deduct	-13.09	
For >100 To 200, Deduct	-29.40	
For >200, Deduct	-42.50	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	6.77	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
For Mechanically Fastened To Concrete Decks, Add	32.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.24	
07 53 23 00-0013 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened 374.95		67.00
Note: Includes fasteners.		
For Up To 10, Add	101.79	
For >10 To 20, Add	57.60	
For >20 To 40, Add	32.15	
For >75 To 100, Deduct	-16.07	
For >100 To 200, Deduct	-35.50	
For >200, Deduct	-51.57	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	6.77	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
For Mechanically Fastened To Concrete Decks, Add	33.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.53	
07 53 23 00-0014 Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane		
Accessories (07 53 23)		
07 53 23 00-0015 SQ Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat 60.24		
For Up To 10, Add	16.17	
For >10 To 20, Add	9.12	
For >20 To 40, Add	5.07	
For >75 To 100, Deduct	-2.54	
For >100 To 200, Deduct	-5.59	
For >200, Deduct	-8.13	
07 53 23 00-0016 SQ Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat 62.22		
Note: 55% solids by volume.		
For Up To 10, Add	16.57	
For >10 To 20, Add	9.32	
For >20 To 40, Add	5.17	
For >75 To 100, Deduct	-2.59	
For >100 To 200, Deduct	-5.69	
For >200, Deduct	-8.28	
07 53 23 00-0017 EA Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot 38.82		9.79
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018 EA >4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot 54.46		9.79
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019 EA >8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot 99.58		9.79
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0020 EA 6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket 131.47		10.82
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 53 23 00-0021 LF 30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad 29.76		5.98
Note: Includes factory installed peel and stick adhesive tape.		
07 53 23 00-0022 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing 5.76		1.54
07 53 23 00-0023 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing 7.30		2.32

07 53 29 Polyisobutylene Roofing (07 53)

07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes (07 53 29)

Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.		
07 53 29 00-0002 SQ 100 Mil, Single Ply PIB Roofing Membrane, Ballasted 430.20		46.39
Note: Includes ballast.		
For Up To 10, Add	104.60	
For >10 To 20, Add	56.94	
For >20 To 40, Add	30.79	
For >75 To 100, Deduct	-15.39	
For >100 To 200, Deduct	-33.11	
For >200, Deduct	-48.50	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 29 00-0003	SQ		100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%).....	484.46	67.00
			Note: Includes adhesive.		
			For Up To 10, Add	123.69	
			For >10 To 20, Add	68.55	
			For >20 To 40, Add	37.62	
			For >75 To 100, Deduct	-18.81	
			For >100 To 200, Deduct	-40.97	
			For >200, Deduct	-59.79	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
07 53 29 00-0004	SQ		100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered	584.06	87.62
			Note: Includes adhesive.		
			For Up To 10, Add	151.86	
			For >10 To 20, Add	84.69	
			For >20 To 40, Add	46.73	
			For >75 To 100, Deduct	-23.36	
			For >100 To 200, Deduct	-51.11	
			For >200, Deduct	-74.47	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	

07 54 Thermoplastic Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 54 19 Polyvinyl-Chloride Roofing (07 54)**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes (07 54 19)**

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	208.07	41.23
			Note: Includes ballast.		
			For Up To 10, Add	58.11	
			For >10 To 20, Add	33.18	
			For >20 To 40, Add	18.65	
			For >75 To 100, Deduct	-9.33	
			For >100 To 200, Deduct	-20.71	
			For >200, Deduct	-30.04	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54 19 00-0003	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	233.05	43.81
			Note: Includes ballast.		
			For Up To 10, Add	64.13	
			For >10 To 20, Add	36.45	
			For >20 To 40, Add	20.41	
			For >75 To 100, Deduct	-10.21	
			For >100 To 200, Deduct	-22.61	
			For >200, Deduct	-32.81	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54 19 00-0004	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	260.96	45.10
			Note: Includes ballast.		
			For Up To 10, Add	70.23	
			For >10 To 20, Add	39.62	
			For >20 To 40, Add	22.07	
			For >75 To 100, Deduct	-11.03	
			For >100 To 200, Deduct	-24.32	
			For >200, Deduct	-35.36	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54 19 00-0005	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	274.57	46.39
			Note: Includes ballast.		
			For Up To 10, Add	73.47	
			For >10 To 20, Add	41.37	
			For >20 To 40, Add	23.01	
			For >75 To 100, Deduct	-11.50	
			For >100 To 200, Deduct	-25.33	
			For >200, Deduct	-36.83	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0006 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	305.04	82.47
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	93.99	
<i>For >10 To 20, Add</i>	55.24	
<i>For >20 To 40, Add</i>	31.75	
<i>For >75 To 100, Deduct</i>	-15.87	
<i>For >100 To 200, Deduct</i>	-35.87	
<i>For >200, Deduct</i>	-51.74	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	48.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
07 54 19 00-0007 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	330.04	85.04
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	100.03	
<i>For >10 To 20, Add</i>	58.52	
<i>For >20 To 40, Add</i>	33.51	
<i>For >75 To 100, Deduct</i>	-16.76	
<i>For >100 To 200, Deduct</i>	-37.76	
<i>For >200, Deduct</i>	-54.52	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	48.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
07 54 19 00-0008 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	357.95	86.33
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	106.12	
<i>For >10 To 20, Add</i>	61.69	
<i>For >20 To 40, Add</i>	35.16	
<i>For >75 To 100, Deduct</i>	-17.58	
<i>For >100 To 200, Deduct</i>	-39.48	
<i>For >200, Deduct</i>	-57.06	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	48.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
07 54 19 00-0009 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	371.56	87.62
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	109.36	
<i>For >10 To 20, Add</i>	63.44	
<i>For >20 To 40, Add</i>	36.10	
<i>For >75 To 100, Deduct</i>	-18.05	
<i>For >100 To 200, Deduct</i>	-40.48	
<i>For >200, Deduct</i>	-58.54	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	48.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
07 54 19 00-0010 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	230.03	61.85
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	70.75	
<i>For >10 To 20, Add</i>	41.56	
<i>For >20 To 40, Add</i>	23.87	
<i>For >75 To 100, Deduct</i>	-11.94	
<i>For >100 To 200, Deduct</i>	-26.96	
<i>For >200, Deduct</i>	-38.90	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	30.93	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	31.96	
07 54 19 00-0011 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	255.02	64.43
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	76.77	
<i>For >10 To 20, Add</i>	44.83	
<i>For >20 To 40, Add</i>	25.64	
<i>For >75 To 100, Deduct</i>	-12.82	
<i>For >100 To 200, Deduct</i>	-28.86	
<i>For >200, Deduct</i>	-41.68	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.24	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0012	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	282.94	65.71
			Note: Includes fasteners.		
			For Up To 10, Add	82.87	
			For >10 To 20, Add	48.01	
			For >20 To 40, Add	27.29	
			For >75 To 100, Deduct	-13.65	
			For >100 To 200, Deduct	-30.58	
			For >200, Deduct	-44.22	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
			For Mechanically Fastened To Concrete Decks, Add	32.86	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.89	
07 54 19 00-0013	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	296.54	67.00
			Note: Includes fasteners.		
			For Up To 10, Add	86.11	
			For >10 To 20, Add	49.76	
			For >20 To 40, Add	28.23	
			For >75 To 100, Deduct	-14.11	
			For >100 To 200, Deduct	-31.58	
			For >200, Deduct	-45.69	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
			For Mechanically Fastened To Concrete Decks, Add	33.50	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.53	
07 54 19 00-0014			Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)		
07 54 19 00-0015	SQ		Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat.....	60.24	
			For Up To 10, Add	16.17	
			For >10 To 20, Add	9.12	
			For >20 To 40, Add	5.07	
			For >75 To 100, Deduct	-2.54	
			For >100 To 200, Deduct	-5.59	
			For >200, Deduct	-8.13	
07 54 19 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat.....	62.22	
			Note: 55% solids by volume.		
			For Up To 10, Add	16.57	
			For >10 To 20, Add	9.32	
			For >20 To 40, Add	5.17	
			For >75 To 100, Deduct	-2.59	
			For >100 To 200, Deduct	-5.69	
			For >200, Deduct	-8.28	
07 54 19 00-0017	EA		Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	62.36	8.76
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0018	EA		>3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	86.88	9.79
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0019	EA		>7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	110.68	10.82
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0020	EA		6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket.....	140.04	10.82
			Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 19 00-0021	LF		36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad.....	25.72	5.98
07 54 19 00-0022	SF		Polyvinyl Chloride (PVC) Membrane Base Flashing.....	6.78	1.54
07 54 19 00-0023	SF		Polyvinyl Chloride (PVC) Membrane Curb Flashing.....	8.32	2.32
07 54 19 00-0024	SF		Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing.....	9.02	1.54
			Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.		
07 54 23			Thermoplastic-Polyolefin Roofing (07 54)		
07 54 23 00-0001			Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)		
			Note: Includes polyester fabric reinforcement and hot air welding of seams.		
07 54 23 00-0002	SQ		45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	320.92	82.47
			Note: Includes adhesive.		
			For Up To 10, Add	97.17	
			For >10 To 20, Add	56.83	
			For >20 To 40, Add	32.54	
			For >75 To 100, Deduct	-16.27	
			For >100 To 200, Deduct	-36.66	
			For >200, Deduct	-52.93	
			For 15 Year Warranty, Add	3.00	
			For Low VOC Adhesive, Add	81.17	
			For Integral Polyester Fleece-Backing, Add	33.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0003 SQ 50 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	334.01	83.75
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	100.30	
<i>For >10 To 20, Add</i>	58.53	
<i>For >20 To 40, Add</i>	33.45	
<i>For >75 To 100, Deduct</i>	-16.73	
<i>For >100 To 200, Deduct</i>	-37.64	
<i>For >200, Deduct</i>	-54.37	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	81.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0004 SQ 60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	341.27	85.04
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	102.27	
<i>For >10 To 20, Add</i>	59.64	
<i>For >20 To 40, Add</i>	34.07	
<i>For >75 To 100, Deduct</i>	-17.04	
<i>For >100 To 200, Deduct</i>	-38.32	
<i>For >200, Deduct</i>	-55.36	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	81.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0005 SQ 80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	424.45	87.62
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	119.94	
<i>For >10 To 20, Add</i>	68.73	
<i>For >20 To 40, Add</i>	38.75	
<i>For >75 To 100, Deduct</i>	-19.37	
<i>For >100 To 200, Deduct</i>	-43.13	
<i>For >200, Deduct</i>	-62.50	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	81.17	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0006 SQ 45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	220.52	61.85
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	68.84	
<i>For >10 To 20, Add</i>	40.61	
<i>For >20 To 40, Add</i>	23.40	
<i>For >75 To 100, Deduct</i>	-11.70	
<i>For >100 To 200, Deduct</i>	-26.49	
<i>For >200, Deduct</i>	-38.19	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	30.93	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	31.96	
07 54 23 00-0007 SQ 50 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	233.61	63.14
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	71.98	
<i>For >10 To 20, Add</i>	42.30	
<i>For >20 To 40, Add</i>	24.31	
<i>For >75 To 100, Deduct</i>	-12.15	
<i>For >100 To 200, Deduct</i>	-27.47	
<i>For >200, Deduct</i>	-39.62	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	31.57	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	32.60	
07 54 23 00-0008 SQ 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	240.85	64.43
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	73.94	
<i>For >10 To 20, Add</i>	43.41	
<i>For >20 To 40, Add</i>	24.93	
<i>For >75 To 100, Deduct</i>	-12.46	
<i>For >100 To 200, Deduct</i>	-28.15	
<i>For >200, Deduct</i>	-40.61	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.24	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0009	SQ		80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	324.04	67.00
			<i>For Up To 10, Add</i>	91.61	
			<i>For >10 To 20, Add</i>	52.51	
			<i>For >20 To 40, Add</i>	29.60	
			<i>For >75 To 100, Deduct</i>	-14.80	
			<i>For >100 To 200, Deduct</i>	-32.95	
			<i>For >200, Deduct</i>	-47.75	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
			<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.50	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	34.53	
07 54 23 00-0010			Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)		
07 54 23 00-0011	SQ		Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat..... <i>For Up To 10, Add</i>	71.14	
			<i>For >10 To 20, Add</i>	18.35	
			<i>For >20 To 40, Add</i>	10.21	
			<i>For >75 To 100, Deduct</i>	5.62	
			<i>For >100 To 200, Deduct</i>	-2.81	
			<i>For >200, Deduct</i>	-6.13	
			<i>For Tan Or Gray Color, Add</i>	-8.94	
07 54 23 00-0012	SQ		Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat..... Note: 55% solids by volume.	62.22	
			<i>For Up To 10, Add</i>	16.57	
			<i>For >10 To 20, Add</i>	9.32	
			<i>For >20 To 40, Add</i>	5.17	
			<i>For >75 To 100, Deduct</i>	-2.59	
			<i>For >100 To 200, Deduct</i>	-5.69	
			<i>For >200, Deduct</i>	-8.28	
			<i>For Tan Or Gray Color, Add</i>	2.08	
07 54 23 00-0013	EA		Up To 3" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	54.04	8.76
07 54 23 00-0014	EA		>3" To 8" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	58.41	9.79
07 54 23 00-0015	EA		6" Diameter, Prefabricated TPO Penetration Pocket..... Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	105.39	10.82
07 54 23 00-0016	LF		30" Wide, TPO Walkway Protection Pad.....	25.43	5.98
07 54 23 00-0017	SF		Thermoplastic Polyolefin Membrane Base Flashing.....	7.07	1.54
07 54 23 00-0018	SF		Thermoplastic Polyolefin Curb Flashing..... <i>For Tan Or Gray Color, Add</i>	6.35	1.54
				0.09	
07 54 23 00-0019	SF		Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing..... Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.	10.17	1.54
07 56 Fluid-Applied Roofing (07 50)					
07 56 00 00-0001			Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)		
07 56 00 00-0002	SQ		60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing..... <i>For Each Additional Coat, Add</i>	954.48	137.07
				143.17	
07 56 00 00-0003			Vinyl Spray Liquid Roofing (07 56)		
07 56 00 00-0004	SQ		2 Mil Vinyl Liquid Roofing.....	943.05	144.44
07 56 00 00-0005	SQ		4 Mil Vinyl Liquid Roofing.....	1,054.92	161.31
07 56 00 00-0006			Silicone Elastomeric Liquid Roofing (07 56)		
07 56 00 00-0007	SQ		65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	374.64	82.76
07 56 00 00-0008	SQ		65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....	454.86	82.76
07 56 00 00-0009	SQ		65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	515.19	82.76
07 56 00 00-0010			Rubberized Acrylic Roof Coating, Sprayed On (07 56)		
			Note: As manufactured by Tru-Co, Inc.		
07 56 00 00-0011			Rubberized Acrylic Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)		
07 56 00 00-0012	SQ		Elastomeric Installation Over Urethane Foam.....	849.37	
07 56 00 00-0013	SQ		Elastomeric Installation Over Decks.....	871.90	
07 56 00 00-0014	SQ		Elastomeric Installation Over Exterior, Waterproofing.....	350.80	
07 56 00 00-0015	SQ		Installation Over Existing Tar (Asphalt) And Gravel Roof.....	1,111.46	
07 56 00 00-0016	SQ		Installation Over New Construction, Waterproofing.....	620.62	
07 56 00 00-0017	SQ		Installation Over Mobile Home.....	409.80	
07 56 00 00-0018	SQ		Installation Over Corrugated Metal Roofs.....	480.39	
07 56 00 00-0019	SQ		Installation Over Granulate Mineral Surface, Cap Sheet (Semi-Smooth) Surface.....	919.97	
07 56 00 00-0020	SQ		4" Acrylic Gel With Fabric (Apply At Edges).....	3.26	
07 56 00 00-0021	SQ		6" Acrylic Gel With Fabric (Apply At Edges).....	4.61	
07 56 00 00-0022			Polyurethane Roof Coating, Sprayed On Assemblies (07 56)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			Note: Includes pressure wash, primer, base coat, polyester reinforcement, top coat and finish coat.		
07 56 00 00-0023	SF		Up To 50 SF White (High-Albedo) Polyurethane Coating.....	10.80	
07 56 00 00-0024	SF		>50 To 100 SF White (High-Albedo) Polyurethane Coating	10.36	
07 56 00 00-0025	SF		>100 To 500 SF White (High-Albedo) Polyurethane Coating	9.92	
07 56 00 00-0026	SEA		>500 To 1,000 SF White (High-Albedo) Polyurethane Coating	9.37	
07 56 00 00-0027			Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)		
07 56 00 00-0028	SQ		90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane	1,599.48	82.76
			Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 60 mil second coat.		
07 56 00 00-0029			Urethane Liquid Roofing Membrane (07 56)		
			Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.		
07 56 00 00-0030	SQ		Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	79.55	
07 56 00 00-0031	LF		Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	4.81	
07 56 00 00-0032	SQ		White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	302.93	
07 56 00 00-0033	SQ		White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System	79.04	
07 56 00 00-0034	SQ		White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	743.27	
07 56 00 00-0035	SQ		White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply.....	1,121.22	
07 56 00 00-0036	SQ		White-Knight® Plus WC High Strength, Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply.....	768.85	
07 56 00 00-0037	SQ		White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ).....	200.41	
07 57			Coated Foamed Roofing (07 50)		
07 57 13			Sprayed Polyurethane Foam Roofing (07 57)		
			Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.		
07 57 13 00-0001			Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002			Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0003			Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
			Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0004	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	289.12	50.18
07 57 13 00-0005	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	342.00	53.76
07 57 13 00-0006	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	394.89	57.35
07 57 13 00-0007	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	510.63	64.51
07 57 13 00-0008	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	606.41	71.68
07 57 13 00-0009	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	712.18	78.85
07 57 13 00-0010	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	817.94	86.01
07 57 13 00-0011			Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
			Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0012	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	296.88	50.18
07 57 13 00-0013	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	349.76	53.76
07 57 13 00-0014	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	402.65	57.35
07 57 13 00-0015	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	508.41	64.51
07 57 13 00-0016	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	614.17	71.68
07 57 13 00-0017	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	719.94	78.85
07 57 13 00-0018	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	825.70	86.01

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0019 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating <small>(07 57 13 00-0002)</small> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0020 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	315.73	50.18
07 57 13 00-0021 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	366.94	53.76
07 57 13 00-0022 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	418.17	57.35
07 57 13 00-0023 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	523.93	64.51
07 57 13 00-0024 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	671.16	71.68
07 57 13 00-0025 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	785.36	78.85
07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	899.54	86.01
07 57 13 00-0027 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating <small>(07 57 13 00-0001)</small>		
07 57 13 00-0028 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0029 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	321.27	50.18
07 57 13 00-0030 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	378.36	53.76
07 57 13 00-0031 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	435.47	57.35
07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	549.65	64.51
07 57 13 00-0033 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	663.84	71.68
07 57 13 00-0034 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	778.04	78.85
07 57 13 00-0035 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	892.23	86.01
07 57 13 00-0036 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0037 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	332.25	50.18
07 57 13 00-0038 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	389.34	53.76
07 57 13 00-0039 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	446.44	57.35
07 57 13 00-0040 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	560.63	64.51
07 57 13 00-0041 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	674.82	71.68
07 57 13 00-0042 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	789.02	78.85
07 57 13 00-0043 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	903.20	86.01
07 57 13 00-0044 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0045 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	340.78	50.18
07 57 13 00-0046 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	397.88	53.76
07 57 13 00-0047 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	454.98	57.35
07 57 13 00-0048 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	569.17	64.51
07 57 13 00-0049 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	683.35	71.68
07 57 13 00-0050 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	797.55	78.85
07 57 13 00-0051 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	911.74	86.01



Thermal And Moisture Protection	07
Membrane Roofing	07 50
Coated Foamed Roofing	07 57

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 58 Roll Roofing <small>(07 50)</small>		
07 58 00 00-0001 Prepared Roll Roofing <small>(07 58)</small>		
Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.		
07 58 00 00-0002 SQ Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....	228.29	32.26
07 59 Membrane Roofing Termination Bar <small>(07 50)</small>		
07 59 00 00-0001 Membrane Roofing Termination Bar <small>(07 50)</small>		
07 59 00 00-0002 LF Membrane Roofing Termination Bar.....	4.44	1.48
Note: Includes fasteners and caulking.		
07 60 Flashing and Sheet Metal <small>(07)</small>		
07 61 Sheet Metal Roofing <small>(07 60)</small>		
07 61 13 Standing Seam Sheet Metal Roofing <small>(07 61)</small>		
07 61 13 00-0001 Standing Seam Concealed Fastener Roofing <small>(07 61 13)</small>		
07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing <small>(07 61 13 00-0001)</small>		
07 61 13 00-0003 SF Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....	25.85	3.65
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
07 61 13 00-0004 SF Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing.....	28.27	3.95
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
07 61 13 00-0005 SF Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....	33.07	4.30
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing <small>(07 61 13 00-0001)</small>		
07 61 13 00-0007 SF 0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	29.99	3.95
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
<i>For Tin/Copper, Deduct</i>		
07 61 13 00-0008 SF 0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	35.86	4.12
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
<i>For Tin/Copper, Deduct</i>		
07 61 13 00-0009 SF 0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	40.50	4.30
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
<i>For Tin/Copper, Deduct</i>		
07 61 13 00-0010 SF 0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	50.15	4.51
<i>For Steep Roof, Over 6 To 12, Add</i>		
<i>For Panels <16" Wide, Add</i>		
<i>For 140 MPH Wind Load, Add</i>		
<i>For Up To 1,500, Add</i>		
<i>For >1,500 To 5,000, Add</i>		
<i>For >5,000 To 10,000, Add</i>		
<i>For Tin/Copper, Deduct</i>		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 13 00-0011			Accessories For Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0012	LF		Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing.....	104.35	7.53
			<i>For Steep Roof, Over 6 To 12, Add</i>	5.65	
			<i>For 140 MPH Wind Load, Add</i>	3.59	
07 61 13 00-0013	LF		Eave Flashing For Copper Standing Seam Concealed Fastener Roofing.....	62.93	7.53
			<i>For Steep Roof, Over 6 To 12, Add</i>	5.65	
			<i>For 140 MPH Wind Load, Add</i>	2.76	
07 61 13 00-0014	LF		Valley Flashing For Copper Standing Seam Concealed Fastener Roofing.....	143.52	7.53
			<i>For Steep Roof, Over 6 To 12, Add</i>	5.65	
			<i>For 140 MPH Wind Load, Add</i>	4.38	
07 61 13 00-0015	LF		Hip Flashing For Copper Standing Seam Concealed Fastener Roofing.....	107.45	7.53
			<i>For Steep Roof, Over 6 To 12, Add</i>	5.65	
			<i>For 140 MPH Wind Load, Add</i>	3.65	
07 61 16			Batten Seam Sheet Metal Roofing (07 61)		
07 61 16 00-0001			Copper Batten Seam Concealed Fastener Roofing (07 61 16)		
07 61 16 00-0002			Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0003	SF		16 Ounce Copper Batten Seam Concealed Fastener Roofing.....	31.71	4.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
			<i>For Panels <16" Wide, Add</i>	3.18	
			<i>For 140 MPH Wind Load, Add</i>	1.32	
			<i>For Up To 1,500, Add</i>	7.93	
			<i>For >1,500 To 5,000, Add</i>	4.76	
			<i>For >5,000 To 10,000, Add</i>	0.79	
07 61 16 00-0004	SF		18 Ounce Copper Batten Seam Concealed Fastener Roofing.....	34.86	4.52
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
			<i>For Panels <16" Wide, Add</i>	3.42	
			<i>For 140 MPH Wind Load, Add</i>	1.42	
			<i>For Up To 1,500, Add</i>	8.72	
			<i>For >1,500 To 5,000, Add</i>	5.23	
			<i>For >5,000 To 10,000, Add</i>	0.87	
07 61 16 00-0005	SF		20 Ounce Copper Batten Seam Concealed Fastener Roofing.....	40.27	4.74
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.84	
			<i>For Panels <16" Wide, Add</i>	3.77	
			<i>For 140 MPH Wind Load, Add</i>	1.56	
			<i>For Up To 1,500, Add</i>	10.07	
			<i>For >1,500 To 5,000, Add</i>	6.04	
			<i>For >5,000 To 10,000, Add</i>	1.01	
07 61 16 00-0006			Zinc/Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0007	SF		0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing.....	31.90	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.37	
			<i>For Panels <16" Wide, Add</i>	3.05	
			<i>For 140 MPH Wind Load, Add</i>	1.27	
			<i>For Up To 1,500, Add</i>	7.98	
			<i>For >1,500 To 5,000, Add</i>	4.79	
			<i>For >5,000 To 10,000, Add</i>	0.80	
			<i>For Tin/Copper, Deduct</i>	-0.48	
07 61 16 00-0008	SF		0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing.....	38.59	4.12
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.47	
			<i>For Panels <16" Wide, Add</i>	3.45	
			<i>For 140 MPH Wind Load, Add</i>	1.43	
			<i>For Up To 1,500, Add</i>	9.65	
			<i>For >1,500 To 5,000, Add</i>	5.79	
			<i>For >5,000 To 10,000, Add</i>	0.96	
			<i>For Tin/Copper, Deduct</i>	-0.61	
07 61 16 00-0009	SF		0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing.....	43.03	4.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
			<i>For Panels <16" Wide, Add</i>	3.74	
			<i>For 140 MPH Wind Load, Add</i>	1.55	
			<i>For Up To 1,500, Add</i>	10.76	
			<i>For >1,500 To 5,000, Add</i>	6.45	
			<i>For >5,000 To 10,000, Add</i>	1.08	
			<i>For Tin/Copper, Deduct</i>	-0.69	
07 61 16 00-0010	SF		0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing.....	53.41	4.51
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
			<i>For Panels <16" Wide, Add</i>	4.34	
			<i>For 140 MPH Wind Load, Add</i>	1.79	
			<i>For Up To 1,500, Add</i>	13.35	
			<i>For >1,500 To 5,000, Add</i>	8.01	
			<i>For >5,000 To 10,000, Add</i>	1.34	
			<i>For Tin/Copper, Deduct</i>	-0.89	
07 61 19			Flat Seam Sheet Metal Roofing (07 61)		
07 61 19 00-0001			Copper Flat Seam Concealed Fastener Roofing (07 61 19)		
07 61 19 00-0002			Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 19 00-0003 SF 16 Ounce Copper Flat Seam Concealed Fastener Roofing.....	24.92	3.95
<i>For Steep Roof, Over 6 To 12, Add</i>	2.37	
<i>For Panels <16" Wide, Add</i>	2.71	
<i>For 140 MPH Wind Load, Add</i>	1.13	
<i>For Up To 1,500, Add</i>	6.23	
<i>For >1,500 To 5,000, Add</i>	3.74	
<i>For >5,000 To 10,000, Add</i>	0.62	
07 61 19 00-0004 SF 18 Ounce Copper Flat Seam Concealed Fastener Roofing.....	27.26	4.12
<i>For Steep Roof, Over 6 To 12, Add</i>	2.47	
<i>For Panels <16" Wide, Add</i>	2.89	
<i>For 140 MPH Wind Load, Add</i>	1.20	
<i>For Up To 1,500, Add</i>	6.82	
<i>For >1,500 To 5,000, Add</i>	4.09	
<i>For >5,000 To 10,000, Add</i>	0.68	
07 61 19 00-0005 SF 20 Ounce Copper Flat Seam Concealed Fastener Roofing.....	31.26	4.30
<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
<i>For Panels <16" Wide, Add</i>	3.16	
<i>For 140 MPH Wind Load, Add</i>	1.31	
<i>For Up To 1,500, Add</i>	7.82	
<i>For >1,500 To 5,000, Add</i>	4.69	
<i>For >5,000 To 10,000, Add</i>	0.78	
07 61 19 00-0006 Zinc/Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0007 SF 0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	28.27	3.95
<i>For Steep Roof, Over 6 To 12, Add</i>	2.37	
<i>For Panels <16" Wide, Add</i>	2.87	
<i>For 140 MPH Wind Load, Add</i>	1.20	
<i>For Up To 1,500, Add</i>	7.07	
<i>For >1,500 To 5,000, Add</i>	4.24	
<i>For >5,000 To 10,000, Add</i>	0.71	
<i>For Tin/Copper, Deduct</i>	-0.41	
07 61 19 00-0008 SF 0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	34.06	4.12
<i>For Steep Roof, Over 6 To 12, Add</i>	2.47	
<i>For Panels <16" Wide, Add</i>	3.23	
<i>For 140 MPH Wind Load, Add</i>	1.34	
<i>For Up To 1,500, Add</i>	8.52	
<i>For >1,500 To 5,000, Add</i>	5.11	
<i>For >5,000 To 10,000, Add</i>	0.85	
<i>For Tin/Copper, Deduct</i>	-0.52	
07 61 19 00-0009 SF 0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	38.05	4.30
<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
<i>For Panels <16" Wide, Add</i>	3.50	
<i>For 140 MPH Wind Load, Add</i>	1.45	
<i>For Up To 1,500, Add</i>	9.51	
<i>For >1,500 To 5,000, Add</i>	5.71	
<i>For >5,000 To 10,000, Add</i>	0.95	
<i>For Tin/Copper, Deduct</i>	-0.59	
07 61 19 00-0010 SF 0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	47.07	4.51
<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
<i>For Panels <16" Wide, Add</i>	4.02	
<i>For 140 MPH Wind Load, Add</i>	1.66	
<i>For Up To 1,500, Add</i>	11.77	
<i>For >1,500 To 5,000, Add</i>	7.06	
<i>For >5,000 To 10,000, Add</i>	1.18	
<i>For Tin/Copper, Deduct</i>	-0.76	
07 62 Sheet Metal Flashing and Trim (07 60)		
07 62 13 Fabricated Copings (07 62)		
07 62 13 00-0001 Lead Flashing And Trim (07 62 13)		
07 62 13 00-0002 SF 2.5 LB/SF Sheet Lead Flashing.....	21.89	6.31
<i>For Up To 100, Add</i>	5.47	
07 62 13 00-0003 SF 4 LB/SF Sheet Lead Flashing.....	27.75	6.31
<i>For Up To 100, Add</i>	6.94	
07 62 13 00-0004 Copper Flashing And Trim (07 62 13)		
07 62 13 00-0005 Copper Flashing And Trim (07 62 13 00-0004)		
07 62 13 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim.....	24.35	6.16
<i>For Up To 100, Add</i>	6.09	
<i>For >500 To 2,000, Deduct</i>	-3.41	
<i>For >2,000, Deduct</i>	-4.02	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.44	
<i>For Wrap Around Window Panning, Add</i>	12.19	
07 62 13 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim.....	25.20	6.31
<i>For Up To 100, Add</i>	6.30	
<i>For >500 To 2,000, Deduct</i>	-3.53	
<i>For >2,000, Deduct</i>	-4.15	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.55	
<i>For Wrap Around Window Panning, Add</i>	12.74	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0008	SF		24 Ounce, 0.032" Thick, Copper Flashing And Trim.....	28.30	6.73
			<i>For Up To 100, Add</i>	7.08	
			<i>For >500 To 2,000, Deduct</i>	-3.95	
			<i>For >2,000, Deduct</i>	-4.69	
			<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.67	
			<i>For Wrap Around Window Panning, Add</i>	13.35	
07 62 13 00-0009	SF		32 Ounce, 0.043" Thick, Copper Flashing And Trim.....	33.96	7.01
			<i>For Up To 100, Add</i>	8.49	
			<i>For >500 To 2,000, Deduct</i>	-4.70	
			<i>For >2,000, Deduct</i>	-5.69	
			<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.80	
			<i>For Wrap Around Window Panning, Add</i>	14.02	
07 62 13 00-0010			Stainless Steel Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0011			Stainless Steel Flashing And Trim <small>(07 62 13 00-0010)</small>		
07 62 13 00-0012	SF		32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....	11.10	3.36
			<i>For Up To 100, Add</i>	2.78	
			<i>For Wrap Around Window Panning, Add</i>	8.65	
			<i>For Mechanically Keyed Flashing, Add</i>	0.98	
07 62 13 00-0013	SF		30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim.....	11.85	3.78
			<i>For Up To 100, Add</i>	2.96	
			<i>For Wrap Around Window Panning, Add</i>	8.79	
			<i>For Mechanically Keyed Flashing, Add</i>	1.22	
07 62 13 00-0014	SF		28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim.....	12.60	4.20
			<i>For Up To 100, Add</i>	3.15	
			<i>For Wrap Around Window Panning, Add</i>	8.93	
			<i>For Mechanically Keyed Flashing, Add</i>	1.47	
07 62 13 00-0015	SF		26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim.....	13.81	4.63
			<i>For Up To 100, Add</i>	3.45	
			<i>For Wrap Around Window Panning, Add</i>	9.22	
			<i>For Mechanically Keyed Flashing, Add</i>	1.84	
07 62 13 00-0016	SF		24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim.....	15.85	4.91
			<i>For Up To 100, Add</i>	3.96	
			<i>For Wrap Around Window Panning, Add</i>	9.74	
			<i>For Mechanically Keyed Flashing, Add</i>	2.44	
07 62 13 00-0017	SF		22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim.....	17.20	5.15
			<i>For Up To 100, Add</i>	4.30	
			<i>For Wrap Around Window Panning, Add</i>	10.30	
			<i>For Mechanically Keyed Flashing, Add</i>	2.76	
07 62 13 00-0018	SF		20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim.....	18.38	5.47
			<i>For Up To 100, Add</i>	4.60	
			<i>For Wrap Around Window Panning, Add</i>	10.90	
			<i>For Mechanically Keyed Flashing, Add</i>	2.99	
07 62 13 00-0019			Aluminum Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0020			Aluminum Flashing And Trim <small>(07 62 13 00-0019)</small>		
07 62 13 00-0021	SF		0.013" Thick, Mill Finish, Aluminum Flashing And Trim.....	12.55	4.34
			<i>For Up To 100, Add</i>	3.14	
			<i>For Baked Aluminum Colors, Add</i>	0.29	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0022	SF		0.016" Thick, Mill Finish, Aluminum Flashing And Trim.....	13.19	4.34
			<i>For Up To 100, Add</i>	3.30	
			<i>For Baked Aluminum Colors, Add</i>	0.35	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0023	SF		0.019" Thick, Mill Finish, Aluminum Flashing And Trim.....	13.68	4.34
			<i>For Up To 100, Add</i>	3.42	
			<i>For Baked Aluminum Colors, Add</i>	0.40	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0024	SF		0.024" Thick, Mill Finish, Aluminum Flashing And Trim.....	14.41	4.34
			<i>For Up To 100, Add</i>	3.60	
			<i>For Baked Aluminum Colors, Add</i>	0.48	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0025	SF		0.032" Thick, Mill Finish, Aluminum Flashing And Trim.....	15.42	4.34
			<i>For Up To 100, Add</i>	3.86	
			<i>For Baked Aluminum Colors, Add</i>	0.58	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0026	SF		0.040" Thick, Mill Finish, Aluminum Flashing And Trim.....	16.04	4.34
			<i>For Up To 100, Add</i>	4.01	
			<i>For Baked Aluminum Colors, Add</i>	0.64	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0027	SF		0.050" Thick, Mill Finish, Aluminum Flashing And Trim.....	16.55	4.34
			<i>For Up To 100, Add</i>	4.14	
			<i>For Baked Aluminum Colors, Add</i>	0.69	
			<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0028			Steel Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0029			Galvanized Steel Flashing And Trim <small>(07 62 13 00-0028)</small>		
07 62 13 00-0030	SF		28 Gauge, 0.019" Thick, Galvanized Steel Flashing.....	13.88	4.20
			<i>For Up To 100, Add</i>	3.47	
			<i>For Wrap Around Window Panning, Add</i>	8.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0031 SF 26 Gauge, 0.022" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	14.44 3.61 9.22	4.63
07 62 13 00-0032 SF 24 Gauge, 0.028" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	15.37 3.84 9.74	4.91
07 62 13 00-0033 SF 22 Gauge, 0.034" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	16.34 4.09 10.30	5.15
07 62 13 00-0034 SF 20 Gauge, 0.04" Thick, Galvanized Steel Flashing..... <i>For Up To 100, Add</i> <i>For Wrap Around Window Panning, Add</i>	17.66 4.42 10.90	5.47
 07 62 19 Fabricated Gravel Stops and Fasciae (07 62)		
07 62 19 00-0001 Drip Edge (07 62 19)		
07 62 19 00-0002 Aluminum Drip Edge (07 62 19 00-0001) <i>Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.</i>		
07 62 19 00-0003 KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0004 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0005 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	10.62	1.62
07 62 19 00-0006 LF >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.13	1.72
07 62 19 00-0007 LF >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.78	1.94
07 62 19 00-0008 LF >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.69	2.04
07 62 19 00-0009 LF >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.40	2.15
 07 62 19 00-0010 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0011 LF Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	11.31	1.62
07 62 19 00-0012 LF >5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.90	1.72
07 62 19 00-0013 LF >7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.94	1.94
07 62 19 00-0014 LF >9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.07	2.04
07 62 19 00-0015 LF >12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.71	2.15
 07 62 19 00-0016 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0017 LF Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	12.00	1.62
07 62 19 00-0018 LF >5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.82	1.72
07 62 19 00-0019 LF >7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.05	1.94
07 62 19 00-0020 LF >9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.46	2.04
07 62 19 00-0021 LF >12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	25.55	2.15
 07 62 19 00-0022 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0023 LF Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.39	1.62
07 62 19 00-0024 LF >5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.67	1.72
07 62 19 00-0025 LF >7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.25	1.94
07 62 19 00-0026 LF >9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.23	2.04
07 62 19 00-0027 LF >12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	29.25	2.15
 07 62 19 00-0028 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0029 LF Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.85	1.62
07 62 19 00-0030 LF >5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.36	1.72
07 62 19 00-0031 LF >7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.98	1.94
07 62 19 00-0032 LF >9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.16	2.04
07 62 19 00-0033 LF >12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	30.48	2.15
 07 62 19 00-0034 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0035 LF Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.47	1.62
07 62 19 00-0036 LF >5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.44	1.72
07 62 19 00-0037 LF >7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.52	1.94
07 62 19 00-0038 LF >9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.39	2.04
07 62 19 00-0039 LF >12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	34.80	2.15
 07 62 19 00-0040 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0041 LF Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.78	1.62
07 62 19 00-0042 LF >5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.53	1.72
07 62 19 00-0043 LF >7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.18	1.94
07 62 19 00-0044 LF >9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.01	2.04
07 62 19 00-0045 LF >12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	40.96	2.15
 07 62 19 00-0046 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0047 LF Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.55	1.62

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 62 19 00-0048	LF	>5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.22	1.72
	07 62 19 00-0049	LF	>7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	30.57	1.94
	07 62 19 00-0050	LF	>9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	37.56	2.04
	07 62 19 00-0051	LF	>12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	48.36	2.15
07 62 19 00-0052			Mill Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0053			0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0054	LF	Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	8.82	1.62
	07 62 19 00-0055	LF	>5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	10.69	1.72
	07 62 19 00-0056	LF	>7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	11.96	1.94
	07 62 19 00-0057	LF	>9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	14.10	2.04
	07 62 19 00-0058	LF	>12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	17.45	2.15
07 62 19 00-0059			0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0060	LF	Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	9.30	1.62
	07 62 19 00-0061	LF	>5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	11.22	1.72
	07 62 19 00-0062	LF	>7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	12.76	1.94
	07 62 19 00-0063	LF	>9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	15.06	2.04
	07 62 19 00-0064	LF	>12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	18.35	2.15
07 62 19 00-0065			0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0066	LF	Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	9.78	1.62
	07 62 19 00-0067	LF	>5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	11.86	1.72
	07 62 19 00-0068	LF	>7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	13.53	1.94
	07 62 19 00-0069	LF	>9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	16.01	2.04
	07 62 19 00-0070	LF	>12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	19.63	2.15
07 62 19 00-0071			0.032" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0072	LF	Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	10.74	1.62
	07 62 19 00-0073	LF	>5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	13.13	1.72
	07 62 19 00-0074	LF	>7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	15.04	1.94
	07 62 19 00-0075	LF	>9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	17.92	2.04
	07 62 19 00-0076	LF	>12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	22.18	2.15
07 62 19 00-0077			0.040" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0078	LF	Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	11.06	1.62
	07 62 19 00-0079	LF	>5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	13.61	1.72
	07 62 19 00-0080	LF	>7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	15.54	1.94
	07 62 19 00-0081	LF	>9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	18.56	2.04
	07 62 19 00-0082	LF	>12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	23.03	2.15
07 62 19 00-0083			0.050" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0084	LF	Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	12.17	1.62
	07 62 19 00-0085	LF	>5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	15.05	1.72
	07 62 19 00-0086	LF	>7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	17.30	1.94
	07 62 19 00-0087	LF	>9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	20.79	2.04
	07 62 19 00-0088	LF	>12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	26.00	2.15
07 62 19 00-0089			0.063" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0090	LF	Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	13.77	1.62
	07 62 19 00-0091	LF	>5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	17.17	1.72
	07 62 19 00-0092	LF	>7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	19.82	1.94
	07 62 19 00-0093	LF	>9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	23.98	2.04
	07 62 19 00-0094	LF	>12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	30.25	2.15
07 62 19 00-0095			0.080" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
	07 62 19 00-0096	LF	Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	15.68	1.62
	07 62 19 00-0097	LF	>5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	19.72	1.72
	07 62 19 00-0098	LF	>7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	22.85	1.94
	07 62 19 00-0099	LF	>9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	27.81	2.04
	07 62 19 00-0100	LF	>12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	35.35	2.15
07 62 19 00-0101			Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0102			0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
	07 62 19 00-0103	LF	Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	10.96	1.62
	07 62 19 00-0104	LF	>5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.60	1.72
	07 62 19 00-0105	LF	>7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.33	1.94
	07 62 19 00-0106	LF	>9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.38	2.04
	07 62 19 00-0107	LF	>12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.35	2.15



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0108				0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0109 LF Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	11.70	1.62
				07 62 19 00-0110 LF >5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.42	1.72
				07 62 19 00-0111 LF >7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.55	1.94
				07 62 19 00-0112 LF >9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.85	2.04
				07 62 19 00-0113 LF >12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.74	2.15
07 62 19 00-0114				0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0115 LF Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	12.43	1.62
				07 62 19 00-0116 LF >5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.40	1.72
				07 62 19 00-0117 LF >7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.73	1.94
				07 62 19 00-0118 LF >9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.32	2.04
				07 62 19 00-0119 LF >12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	26.70	2.15
07 62 19 00-0120				0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0121 LF Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.90	1.62
				07 62 19 00-0122 LF >5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.35	1.72
				07 62 19 00-0123 LF >7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.06	1.94
				07 62 19 00-0124 LF >9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.26	2.04
				07 62 19 00-0125 LF >12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	30.62	2.15
07 62 19 00-0126				0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0127 LF Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.39	1.62
				07 62 19 00-0128 LF >5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.09	1.72
				07 62 19 00-0129 LF >7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.84	1.94
				07 62 19 00-0130 LF >9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.24	2.04
				07 62 19 00-0131 LF >12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	31.93	2.15
07 62 19 00-0132				0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0133 LF Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.11	1.62
				07 62 19 00-0134 LF >5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.29	1.72
				07 62 19 00-0135 LF >7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.53	1.94
				07 62 19 00-0136 LF >9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.67	2.04
				07 62 19 00-0137 LF >12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	36.50	2.15
07 62 19 00-0138				0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0139 LF Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.56	1.62
				07 62 19 00-0140 LF >5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.56	1.72
				07 62 19 00-0141 LF >7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	27.41	1.94
				07 62 19 00-0142 LF >9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	33.57	2.04
				07 62 19 00-0143 LF >12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	43.03	2.15
07 62 19 00-0144				0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
				07 62 19 00-0145 LF Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.50	1.62
				07 62 19 00-0146 LF >5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	27.48	1.72
				07 62 19 00-0147 LF >7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	32.06	1.94
				07 62 19 00-0148 LF >9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	39.45	2.04
				07 62 19 00-0149 LF >12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	50.87	2.15
07 62 19 00-0150				Galvanized Steel Drip Edge (07 62 19 00-0001)		
				Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0151				Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0152				26 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
				07 62 19 00-0153 LF Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	10.15	1.62
				07 62 19 00-0154 LF >5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	12.40	1.72
				07 62 19 00-0155 LF >7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	14.12	1.94
				07 62 19 00-0156 LF >9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	16.76	2.04
				07 62 19 00-0157 LF >12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	20.62	2.15
07 62 19 00-0158				24 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
				07 62 19 00-0159 LF Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	10.96	1.62
				07 62 19 00-0160 LF >5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	13.47	1.72
				07 62 19 00-0161 LF >7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	15.38	1.94
				07 62 19 00-0162 LF >9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	18.36	2.04
				07 62 19 00-0163 LF >12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	22.74	2.15
07 62 19 00-0164				KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0150)		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
07 62 19 00-0165		26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)			
07 62 19 00-0166	LF	Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	12.55		1.62
07 62 19 00-0167	LF	>5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	15.61		1.72
07 62 19 00-0168	LF	>7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	17.91		1.94
07 62 19 00-0169	LF	>9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	21.54		2.04
07 62 19 00-0170	LF	>12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	27.00		2.15
07 62 19 00-0171		24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)			
07 62 19 00-0172	LF	Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	13.70		1.62
07 62 19 00-0173	LF	>5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	17.16		1.72
07 62 19 00-0174	LF	>7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	19.74		1.94
07 62 19 00-0175	LF	>9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	23.85		2.04
07 62 19 00-0176	LF	>12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	30.08		2.15
07 62 19 00-0177		Stainless Steel Drip Edge (07 62 19 00-0001)			
		Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.			
07 62 19 00-0178		26 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)			
07 62 19 00-0179	LF	Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	16.96		1.62
07 62 19 00-0180	LF	>5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	21.43		1.72
07 62 19 00-0181	LF	>7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge.....	24.88		1.94
07 62 19 00-0182	LF	>9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	30.37		2.04
07 62 19 00-0183	LF	>12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge.....	38.78		2.15
07 62 19 00-0184		24 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)			
07 62 19 00-0185	LF	Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	20.78		1.62
07 62 19 00-0186	LF	>5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge.....	26.52		1.72
07 62 19 00-0187	LF	>7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge.....	30.95		1.94
07 62 19 00-0188	LF	>9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge.....	38.01		2.04
07 62 19 00-0189	LF	>12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge.....	48.95		2.15
07 62 19 00-0190		22 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)			
07 62 19 00-0191	LF	Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge.....	25.27		1.62
07 62 19 00-0192	LF	>5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge.....	32.51		1.72
07 62 19 00-0193	LF	>7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge.....	38.05		1.94
07 62 19 00-0194	LF	>9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge.....	46.99		2.04
07 62 19 00-0195	LF	>12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge.....	60.93		2.15
07 63		Sheet Metal Roofing Specialties (07 60)			
07 63 00 00-0001		Pitch Pockets (07 63)			
		Note: Cut into deck, filled with non-shrink grout, includes blocking.			
07 63 00 00-0002		24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)			
07 63 00 00-0003	EA	4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	80.19		
		For Pourable Sealer Filled, Add	31.59		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	15.80		
07 63 00 00-0004	EA	6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	95.01		
		For Pourable Sealer Filled, Add	71.12		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	35.66		
07 63 00 00-0005	EA	8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	114.59		
		For Pourable Sealer Filled, Add	126.37		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	63.04		
07 63 00 00-0006	EA	8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	126.34		
		For Pourable Sealer Filled, Add	157.96		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	79.24		
07 63 00 00-0007	EA	8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	137.08		
		For Pourable Sealer Filled, Add	189.55		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	94.79		
07 63 00 00-0008	SF	24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	160.66		
		For Pourable Sealer Filled, Add	284.32		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	141.29		
07 63 00 00-0009		16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)			
07 63 00 00-0010	EA	4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	97.56		
		For Pourable Sealer Filled, Add	31.59		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	15.80		
07 63 00 00-0011	EA	6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	115.46		
		For Pourable Sealer Filled, Add	71.12		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	35.66		
07 63 00 00-0012	EA	8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	138.73		
		For Pourable Sealer Filled, Add	126.37		
		For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	63.04		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0013 EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	154.19 157.96 79.24	
07 63 00 00-0014 EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	165.46 189.55 94.79	
07 63 00 00-0015 SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	190.74 284.32 141.29	
 07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0017 EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	99.90 31.59 15.80	
07 63 00 00-0018 EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	117.31 71.12 35.66	
07 63 00 00-0019 EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	135.07 126.37 63.04	
07 63 00 00-0020 EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	146.51 157.96 79.24	
07 63 00 00-0021 EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	156.85 189.55 94.79	
07 63 00 00-0022 SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	179.31 284.32 141.29	
 07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout <small>(07 63 00 00-0001)</small>		
Note: Includes removing existing filler and refilling with non-shrink grout.		
07 63 00 00-0024 EA Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	70.51 31.59 15.80	
07 63 00 00-0025 EA Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	80.13 71.12 35.66	
07 63 00 00-0026 EA Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	92.83 126.37 63.04	
07 63 00 00-0027 EA Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	100.99 157.96 79.24	
07 63 00 00-0028 EA Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	109.14 189.55 94.79	
07 63 00 00-0029 SF Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout..... <i>For Pourable Sealer Filled, Add</i> <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	129.31 284.32 141.29	
 07 63 00 00-0030 Lead Pipe Flashing For Roofs <small>(07 63)</small>		
Note: Includes 6" skirt base.		
07 63 00 00-0031 EA 1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	106.35	37.04
07 63 00 00-0032 EA 1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe.....	106.35	37.04
07 63 00 00-0033 EA 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe.....	124.43	37.04
07 63 00 00-0034 EA 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe.....	134.76	37.04
07 63 00 00-0035 EA 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe.....	139.93	37.04
07 63 00 00-0036 EA 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe.....	142.51	37.04
07 63 00 00-0037 EA 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe.....	168.34	37.04
07 63 00 00-0038 EA 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe.....	179.96	37.04
 07 63 00 00-0039 Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing <small>(07 63)</small>		
07 63 00 00-0040 EA 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	84.69	23.94
07 63 00 00-0041 EA 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	85.34	23.94
07 63 00 00-0042 EA 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	87.71	23.94
07 63 00 00-0043 EA 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	89.74	23.94
 07 65 Flexible Flashing <small>(07 60)</small>		
07 65 16 Modified Bituminous Sheet Flashing <small>(07 65)</small>		
07 65 16 00-0001 Liquid Flashing System For Modified And BUR Systems <small>(07 65 16)</small>		
See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.		
07 65 16 00-0002 SF 60 Mil, Urethane Elastomer Liquid Applied Flashing.....	12.90	2.06
Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 30 mil second coat.		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 65 Flexible Flashing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 65 19 Plastic Sheet Flashing (07 65)**

07 65 19 00-0001	Plastic Flashing And Trim (07 65 19)		
07 65 19 00-0002	Neoprene Flashing (07 65 19 00-0001)		
07 65 19 00-0003	60 Mil Neoprene Flashing (07 65 19 00-0002)		
07 65 19 00-0004	LF 6" Wide Strip, 60 Mil, Neoprene Flashing	8.78	2.90
07 65 19 00-0005	LF 12" Wide Strip, 60 Mil, Neoprene Flashing	11.45	3.11
07 65 19 00-0006	LF 18" Wide Strip, 60 Mil, Neoprene Flashing	14.45	3.44
07 65 19 00-0007	LF 24" Wide Strip, 60 Mil, Neoprene Flashing	17.63	3.87

07 65 33 Flexible Roof Boot (07 65)

07 65 33 00-0001	Neoprene Roof Boot (07 65 33)		
07 65 33 00-0002	EA 2" Diameter Pipe, Neoprene Roof Boot	45.12	8.93
07 65 33 00-0003	EA 3" Diameter Pipe, Neoprene Roof Boot	53.41	10.00
07 65 33 00-0004	EA 4" Diameter Pipe, Neoprene Roof Boot	59.62	10.76

07 70 Roof and Wall Specialties and Accessories (07)**07 71 Roof Specialties (07 70)****07 71 13 Manufactured Copings (07 71)**

07 71 13 00-0001	Galvanized Steel Copings (07 71 13)		
07 71 13 00-0002	KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats (07 71 13 00-0001)		
	Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0003	LF 10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	28.08	2.32
07 71 13 00-0004	LF >14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	29.65	2.52
07 71 13 00-0005	LF >16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	33.74	2.64
07 71 13 00-0006	LF >22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	39.14	2.90
07 71 13 00-0007	LF >30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	47.16	3.03

07 71 13 00-0008 Aluminum Copings (07 71 13)

07 71 13 00-0009	Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0008)		
	Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0010	0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0011	LF 10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	22.43	2.32
07 71 13 00-0012	LF >14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	23.96	2.52
07 71 13 00-0013	LF >16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	27.84	2.64
07 71 13 00-0014	LF >22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.17	2.90
07 71 13 00-0015	LF >30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	41.03	3.03

07 71 13 00-0016 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)

07 71 13 00-0017	LF 10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	24.29	2.32
07 71 13 00-0018	LF >14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	25.94	2.52
07 71 13 00-0019	LF >16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	30.18	2.64
07 71 13 00-0020	LF >22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	36.00	2.90
07 71 13 00-0021	LF >30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	44.63	3.03

07 71 13 00-0022 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)

07 71 13 00-0023	LF 10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	25.81	2.32
07 71 13 00-0024	LF >14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	27.70	2.52
07 71 13 00-0025	LF >16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.10	2.64
07 71 13 00-0026	LF >22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	41.22	2.90
07 71 13 00-0027	LF >30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	53.08	3.03



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0028		KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0029		0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0030	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	30.78	2.32
07 71 13 00-0031	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	32.86	2.52
07 71 13 00-0032	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	38.39	2.64
07 71 13 00-0033	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	45.91	2.90
07 71 13 00-0034	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	57.23	3.03
07 71 13 00-0035		0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0036	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	33.47	2.32
07 71 13 00-0037	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	35.72	2.52
07 71 13 00-0038	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	41.78	2.64
07 71 13 00-0039	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	50.02	2.90
07 71 13 00-0040	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	62.44	3.03
07 71 13 00-0041		0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0042	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	35.68	2.32
07 71 13 00-0043	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	38.28	2.52
07 71 13 00-0044	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.01	2.64
07 71 13 00-0045	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	57.59	2.90
07 71 13 00-0046	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	74.69	3.03
07 71 13 00-0047		Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048		0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0049	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	32.40	2.32
07 71 13 00-0050	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	34.58	2.52
07 71 13 00-0051	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	40.42	2.64
07 71 13 00-0052	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	48.38	2.90
07 71 13 00-0053	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	60.36	3.03
07 71 13 00-0054		0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0055	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	35.25	2.32
07 71 13 00-0056	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	37.61	2.52
07 71 13 00-0057	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	44.03	2.64
07 71 13 00-0058	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	52.73	2.90
07 71 13 00-0059	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	65.89	3.03

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 13 00-0060		0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0061	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	37.59	2.32
07 71 13 00-0062	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	40.33	2.52
07 71 13 00-0063	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	48.50	2.64
07 71 13 00-0064	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	60.75	2.90
07 71 13 00-0065	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	78.87	3.03
07 71 13 00-0066		Removal And Reinstallation Of Metal Coping <small>(07 71 13)</small>		
07 71 13 00-0067	LF	Removal And Reinstallation Of Metal Coping	9.74	
07 71 19		Manufactured Gravel Stops and Fasciae <small>(07 71)</small>		
07 71 19 00-0001		Gravel Stop <small>(07 71 19)</small>		
07 71 19 00-0002		Aluminum Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0003		Aluminum Gravel Stop <small>(07 71 19 00-0002)</small>		
07 71 19 00-0004		KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0005		0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0006	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	31.40	1.83
07 71 19 00-0007	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	32.59	2.15
07 71 19 00-0008	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	33.78	2.37
07 71 19 00-0009		0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0010	LF	4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	33.31	1.83
07 71 19 00-0011	LF	>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	34.59	2.15
07 71 19 00-0012	LF	>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	35.89	2.37
07 71 19 00-0013		0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0014	LF	4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	35.81	1.83
07 71 19 00-0015	LF	>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	36.98	2.15
07 71 19 00-0016	LF	>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	38.54	2.37
07 71 19 00-0017		0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0018	LF	4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	37.51	1.83
07 71 19 00-0019	LF	>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	38.73	2.15
07 71 19 00-0020	LF	>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	40.40	2.37
07 71 19 00-0021		Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0022		0.032" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0023	LF	4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	20.78	1.83
07 71 19 00-0024	LF	>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	22.50	2.15
07 71 19 00-0025	LF	>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	24.20	2.37
07 71 19 00-0026		0.040" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0027	LF	4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	22.37	1.83
07 71 19 00-0028	LF	>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	23.88	2.15
07 71 19 00-0029	LF	>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	25.26	2.37
07 71 19 00-0030		0.050" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0031	LF	4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	23.96	1.83
07 71 19 00-0032	LF	>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	25.48	2.15
07 71 19 00-0033	LF	>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	26.99	2.37
07 71 19 00-0034		0.063" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0035	LF	4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	25.69	1.83
07 71 19 00-0036	LF	>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	27.07	2.15
07 71 19 00-0037	LF	>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	28.27	2.37
07 71 19 00-0038		Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0039		0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0040 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	37.29	1.83
07 71 19 00-0041 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	38.74	2.15
07 71 19 00-0042 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	40.02	2.37
07 71 19 00-0043 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0044 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	39.59	1.83
07 71 19 00-0045 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	41.14	2.15
07 71 19 00-0046 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	42.53	2.37
07 71 19 00-0047 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0048 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	42.59	1.83
07 71 19 00-0049 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	44.01	2.15
07 71 19 00-0050 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	45.19	2.37
07 71 19 00-0051 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0052 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	44.62	1.83
07 71 19 00-0053 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	46.11	2.15
07 71 19 00-0054 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	47.38	2.37
07 71 19 00-0055 Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0002)</small>		
<small>Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.</small>		
07 71 19 00-0056 KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0057 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0058 LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	35.40	1.94
07 71 19 00-0059 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	37.74	2.31
07 71 19 00-0060 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	40.37	2.63
07 71 19 00-0061 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0062 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	37.32	1.94
07 71 19 00-0063 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	39.74	2.31
07 71 19 00-0064 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	42.48	2.63
07 71 19 00-0065 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0066 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	39.81	1.94
07 71 19 00-0067 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	42.13	2.31
07 71 19 00-0068 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	45.14	2.63
07 71 19 00-0069 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0070 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	41.51	1.94
07 71 19 00-0071 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	43.89	2.31
07 71 19 00-0072 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	47.00	2.63
07 71 19 00-0073 Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0074 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	26.25	1.94
07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	28.20	2.31
07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	30.40	2.63
07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	27.57	1.94
07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	29.58	2.31
07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat	31.86	2.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	29.30	1.94
07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	31.23	2.31
07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	33.58	2.63
07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	30.46	1.94
07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	32.44	2.31
07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	34.87	2.63
07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	41.30	1.94
07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	43.89	2.31
07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.61	2.63
07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	43.60	1.94
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.29	2.31
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	49.12	2.63
07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.59	1.94
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	49.16	2.31
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.78	2.63
07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	48.63	1.94
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.27	2.31
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	53.97	2.63
07 71 19 00-0107 Stainless Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0108 Stainless Steel Gravel Stop <small>(07 71 19 00-0107)</small>		
07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	30.14	1.83
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	39.50	2.15
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	58.23	2.37
07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	37.32	1.83
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	49.08	2.15
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	72.60	2.37
07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	44.95	1.83
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	59.25	2.15
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	87.87	2.37
07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0107)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0122)</small>		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	35.55	1.94
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	46.50	2.31
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	67.21	2.63
07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0126)</small>		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	42.74	1.94
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	56.08	2.31
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	81.58	2.63
07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0130)</small>		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	50.37	1.94
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	66.25	2.31
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	96.85	2.63
07 71 19 00-0134 Galvanized Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0135 Galvanized Steel Gravel Stop <small>(07 71 19 00-0134)</small>		
07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0135)</small>		
07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0136)</small>		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	28.87	1.83
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	30.01	2.15
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	31.33	2.37
07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0134)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0141)</small>		
07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0142)</small>		
07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	32.99	1.94
07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	35.32	2.31
07 71 19 00-0146 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	38.11	2.63
07 71 19 00-0147 Copper Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0148 Copper Gravel Stop <small>(07 71 19 00-0147)</small>		
07 71 19 00-0149 20 Ounce, Copper Gravel Stop <small>(07 71 19 00-0148)</small>		
07 71 19 00-0150 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop	47.76	1.83
07 71 19 00-0151 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop	54.73	2.15
07 71 19 00-0152 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop	63.20	2.37
07 71 19 00-0153 16 Ounce, Copper Gravel Stop <small>(07 71 19 00-0148)</small>		
07 71 19 00-0154 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop	57.81	1.83
07 71 19 00-0155 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop	67.02	2.15
07 71 19 00-0156 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop	76.60	2.37
07 71 19 00-0157 Copper Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0147)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158 20 Ounce, Copper Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0157)</small>		
07 71 19 00-0159 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	49.76	1.94
07 71 19 00-0160 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	57.27	2.31
07 71 19 00-0161 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	66.41	2.63
07 71 19 00-0162 16 Ounce, Copper Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0157)</small>		
07 71 19 00-0163 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	59.82	1.94
07 71 19 00-0164 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	69.56	2.31
07 71 19 00-0165 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	79.81	2.63
07 71 19 00-0166 Fascia <small>(07 71 19)</small>		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
07 71 19 00-0167		Snap-On Cover Fascia <small>(07 71 19 00-0166)</small> Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.			
07 71 19 00-0168		Galvanized Steel Snap-On Cover Fascia <small>(07 71 19 00-0167)</small>			
07 71 19 00-0169		KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia <small>(07 71 19 00-0168)</small>			
07 71 19 00-0170		24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia <small>(07 71 19 00-0169)</small>			
07 71 19 00-0171	LF	3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	35.11		2.69
07 71 19 00-0172	LF	>5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	39.43		2.79
07 71 19 00-0173	LF	>7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	42.21		2.90
07 71 19 00-0174		Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems <small>(07 71 19 00-0169)</small>			
07 71 19 00-0175		Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems <small>(07 71 19 00-0174)</small>			
07 71 19 00-0176	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	239.91		3.77
07 71 19 00-0177	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	256.17		3.77
07 71 19 00-0178	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	266.38		3.77
07 71 19 00-0179		Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems <small>(07 71 19 00-0174)</small>			
07 71 19 00-0180	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	195.64		3.77
07 71 19 00-0181	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	203.84		3.77
07 71 19 00-0182	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	208.84		3.77
07 71 19 00-0183		Aluminum Snap-On Cover Fascia <small>(07 71 19 00-0167)</small>			
07 71 19 00-0184		KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0183)</small>			
07 71 19 00-0185		0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0184)</small>			
07 71 19 00-0186	LF	3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	20.22		2.69
07 71 19 00-0187	LF	>5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	22.78		2.79
07 71 19 00-0188	LF	>7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	24.16		2.90
07 71 19 00-0189		0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0184)</small>			
07 71 19 00-0190	LF	3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	21.19		2.69
07 71 19 00-0191	LF	>5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	24.03		2.79
07 71 19 00-0192	LF	>7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	25.56		2.90
07 71 19 00-0193		Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0184)</small>			
07 71 19 00-0194		Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>			
07 71 19 00-0195	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	125.70		3.77
07 71 19 00-0196	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	136.20		3.77
07 71 19 00-0197	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	140.79		3.77
07 71 19 00-0198		Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>			
07 71 19 00-0199	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	99.83		3.77
07 71 19 00-0200	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	105.06		3.77
07 71 19 00-0201	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	107.34		3.77



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 71 19 00-0202			Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0183)</small>		
	07 71 19 00-0203			0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
	07 71 19 00-0204	LF		3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	23.19	2.69
	07 71 19 00-0205	LF		>5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	26.22	2.79
	07 71 19 00-0206	LF		>7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	27.82	2.90
	07 71 19 00-0207			0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
	07 71 19 00-0208	LF		3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	24.36	2.69
	07 71 19 00-0209	LF		>5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	27.72	2.79
	07 71 19 00-0210	LF		>7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	29.50	2.90
	07 71 19 00-0211			Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0202)</small>		
	07 71 19 00-0212			Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0211)</small>		
	07 71 19 00-0213	EA		Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	155.25	3.77
	07 71 19 00-0214	EA		Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	168.37	3.77
	07 71 19 00-0215	EA		Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	174.11	3.77
	07 71 19 00-0216			Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0211)</small>		
	07 71 19 00-0217	EA		Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	122.90	3.77
	07 71 19 00-0218	EA		Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	129.44	3.77
	07 71 19 00-0219	EA		Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	132.30	3.77
	07 71 23			Manufactured Gutters and Downspouts <small>(07 71)</small>		
				Note: Includes all necessary support straps.		
	07 71 23 00-0001			Aluminum Gutters And Downspouts <small>(07 71 23)</small>		
	07 71 23 00-0002			Aluminum Gutters <small>(07 71 23 00-0001)</small>		
				Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
	07 71 23 00-0003			K-Style Aluminum Gutters <small>(07 71 23 00-0002)</small>		
	07 71 23 00-0004	LF		5", 0.027" Thick, K-Style Aluminum Gutter.....	11.02	5.19
				For Up To 100', Add	2.38	
				For >100' To 250', Add	0.98	
				For >1,000', Deduct	-0.86	
				For Kynar 500® Finish, Add	1.11	
	07 71 23 00-0005	LF		6", 0.027" Thick, K-Style Aluminum Gutter.....	12.11	5.47
				For Up To 100', Add	2.56	
				For >100' To 250', Add	1.05	
				For >1,000', Deduct	-0.90	
				For Kynar 500® Finish, Add	1.41	
	07 71 23 00-0006	LF		5", 0.032" Thick, K-Style Aluminum Gutter.....	11.37	5.19
				For Up To 100', Add	2.42	
				For >100' To 250', Add	1.00	
				For >1,000', Deduct	-0.86	
				For Kynar 500® Finish, Add	1.27	
	07 71 23 00-0007	LF		6", 0.032" Thick, K-Style Aluminum Gutter.....	12.57	5.47
				For Up To 100', Add	2.60	
				For >100' To 250', Add	1.08	
				For >1,000', Deduct	-0.90	
				For Kynar 500® Finish, Add	1.62	
	07 71 23 00-0008	LF		7", 0.032" Thick, K-Style Aluminum Gutter.....	21.31	5.74
				For Up To 100', Add	3.58	
				For >100' To 250', Add	1.55	
				For >1,000', Deduct	-0.97	
				For Kynar 500® Finish, Add	5.24	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0009	LF	8"	0.032" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	23.37 3.93 1.70 -1.07 5.72	6.45
07 71 23 00-0010	LF	8"	0.040" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	25.83 4.18 1.82 -1.07 6.83	6.45
07 71 23 00-0011			Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012	LF	5"	0.027" Thick, Half Round Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	18.13 3.10 1.33 -0.86 4.31	5.19
07 71 23 00-0013	LF	6"	0.032" Thick, Half Round Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	21.44 3.49 1.52 -0.90 5.61	5.47
07 71 23 00-0014			Box Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0015	LF	6"	0.027" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	19.54 3.55 1.51 -1.07 4.00	6.45
07 71 23 00-0016	LF	6"	0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	19.58 3.56 1.51 -1.07 4.02	6.45
07 71 23 00-0017	LF	7"	0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	22.48 3.95 1.69 -1.14 5.01	6.87
07 71 23 00-0018	LF	8"	0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	25.17 4.33 1.86 -1.21 5.90	7.29
07 71 23 00-0019			Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020			K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021	EA	5"	K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	3.67 0.39	
07 71 23 00-0022	EA	6"	K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	4.36 0.70	
07 71 23 00-0023	EA	7"	K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	8.60 2.61	
07 71 23 00-0024	EA	8"	K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	9.90 3.19	
07 71 23 00-0025			Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026	EA	5"	Half Round Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	5.45 1.19	
07 71 23 00-0027	EA	6"	Half Round Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	8.02 2.34	
07 71 23 00-0028			Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029	EA	6"	Box Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	9.31 2.93	
07 71 23 00-0030	EA	7"	Box Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	10.06 3.26	
07 71 23 00-0031	EA	8"	Box Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	11.68 3.99	
07 71 23 00-0032			Aluminum Gutter Miters (07 71 23 00-0001) Note: Inside or outside miters.		
07 71 23 00-0033			K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034	EA	5"	K-Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	20.94 3.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0035 EA 6", K-Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	26.87 5.28	
07 71 23 00-0036 EA 7", K-Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	72.58 25.41	
07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	78.71 27.66	
07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	33.38 8.65	
07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	50.54 15.93	
07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	59.39 19.91	
07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	86.70 31.76	
07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter <i>For Kynar 500® Finish, Add</i>	94.08 34.58	
07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)		
07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	14.73 3.34 1.04 2.15 3.12	3.50
07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	20.99 6.16 1.92 3.97 5.75	3.50
07 71 23 00-0048 Aluminum Downspouts (07 71 23 00-0001) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0049 Round Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0050 LF 3" Diameter, 0.019" Thick, Round Aluminum Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	7.02 1.25 0.53 -0.36 1.52 0.47 0.98 1.42	3.36
07 71 23 00-0051 LF 4" Diameter, 0.019" Thick, Round Aluminum Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	7.81 1.33 0.57 -0.36 1.88 0.58 1.21 1.75	3.36
07 71 23 00-0052 Rectangular Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0053 LF 2" x 3", 0.019" Thick, Rectangular Aluminum Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	5.37 1.08 0.45 -0.36 0.78 0.24 0.50 0.73	3.36
07 71 23 00-0054 LF 3" x 4", 0.019" Thick, Rectangular Aluminum Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	6.38 1.18 0.50 -0.36 1.23 0.38 0.79 1.15	3.36
07 71 23 00-0055 LF 4" x 5", 0.019" Thick, Rectangular Aluminum Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	10.63 1.61 0.71 -0.36 3.15 0.98 2.03 2.94	3.36

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0056			Aluminum Devices (07 71 23 00-0001)		
07 71 23 00-0057	EA		Thru-Wall Aluminum Scupper Outlet.....	184.42	24.19
			<i>For Kynar 500® Finish, Add</i>	46.70	
07 71 23 00-0058	EA		Aluminum Leader/Conductor Head.....	200.83	26.88
			<i>For Kynar 500® Finish, Add</i>	66.18	
07 71 23 00-0059			Copper Gutters And Downspouts (07 71 23)		
07 71 23 00-0060			Copper Gutters (07 71 23 00-0059)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0061			K-Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0062	LF		4", 16 Ounce, K-Style Copper Gutter.....	18.99	4.91
			<i>For Up To 100', Add</i>	3.12	
			<i>For >100' To 250', Add</i>	1.36	
			<i>For >1,000', Deduct</i>	-0.81	
07 71 23 00-0063	LF		5", 16 Ounce, K-Style Copper Gutter.....	26.19	5.19
			<i>For Up To 100', Add</i>	3.90	
			<i>For >100' To 250', Add</i>	1.74	
			<i>For >1,000', Deduct</i>	-0.86	
07 71 23 00-0064	LF		6", 16 Ounce, K-Style Copper Gutter.....	30.95	5.47
			<i>For Up To 100', Add</i>	4.44	
			<i>For >100' To 250', Add</i>	2.00	
			<i>For >1,000', Deduct</i>	-0.90	
07 71 23 00-0065	LF		5", 20 Ounce, K-Style Copper Gutter.....	32.54	5.19
			<i>For Up To 100', Add</i>	4.54	
			<i>For >100' To 250', Add</i>	2.05	
			<i>For >1,000', Deduct</i>	-0.86	
07 71 23 00-0066	LF		6", 20 Ounce, K-Style Copper Gutter.....	39.94	5.47
			<i>For Up To 100', Add</i>	5.34	
			<i>For >100' To 250', Add</i>	2.45	
			<i>For >1,000', Deduct</i>	-0.90	
07 71 23 00-0067	LF		7", 20 Ounce, K-Style Copper Gutter.....	46.36	5.74
			<i>For Up To 100', Add</i>	6.09	
			<i>For >100' To 250', Add</i>	2.80	
			<i>For >1,000', Deduct</i>	-0.97	
07 71 23 00-0068	LF		8", 20 Ounce, K-Style Copper Gutter.....	51.52	6.45
			<i>For Up To 100', Add</i>	6.75	
			<i>For >100' To 250', Add</i>	3.11	
			<i>For >1,000', Deduct</i>	-1.07	
07 71 23 00-0069			Half Round Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0070	LF		5", 16 Ounce, Half Round Copper Gutter.....	22.89	5.19
			<i>For Up To 100', Add</i>	3.57	
			<i>For >100' To 250', Add</i>	1.57	
			<i>For >1,000', Deduct</i>	-0.86	
07 71 23 00-0071	LF		6", 16 Ounce, Half Round Copper Gutter.....	28.49	5.47
			<i>For Up To 100', Add</i>	4.19	
			<i>For >100' To 250', Add</i>	1.87	
			<i>For >1,000', Deduct</i>	-0.90	
07 71 23 00-0072	LF		7", 16 Ounce, Half Round Copper Gutter.....	46.42	5.74
			<i>For Up To 100', Add</i>	6.09	
			<i>For >100' To 250', Add</i>	2.80	
			<i>For >1,000', Deduct</i>	-0.97	
07 71 23 00-0073	LF		5", 20 Ounce, Half Round Copper Gutter.....	26.36	5.19
			<i>For Up To 100', Add</i>	3.92	
			<i>For >100' To 250', Add</i>	1.75	
			<i>For >1,000', Deduct</i>	-0.86	
07 71 23 00-0074	LF		6", 20 Ounce, Half Round Copper Gutter.....	32.17	5.47
			<i>For Up To 100', Add</i>	4.56	
			<i>For >100' To 250', Add</i>	2.06	
			<i>For >1,000', Deduct</i>	-0.90	
07 71 23 00-0075	LF		7", 20 Ounce, Half Round Copper Gutter.....	48.67	5.74
			<i>For Up To 100', Add</i>	6.32	
			<i>For >100' To 250', Add</i>	2.92	
			<i>For >1,000', Deduct</i>	-0.97	
07 71 23 00-0076	LF		8", 20 Ounce, Half Round Copper Gutter.....	55.21	6.45
			<i>For Up To 100', Add</i>	7.12	
			<i>For >100' To 250', Add</i>	3.29	
			<i>For >1,000', Deduct</i>	-1.07	
07 71 23 00-0077			Box Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0078	LF		5", 16 Ounce, Box Style Copper Gutter.....	26.25	5.88
			<i>For Up To 100', Add</i>	4.10	
			<i>For >100' To 250', Add</i>	1.80	
			<i>For >1,000', Deduct</i>	-0.98	
07 71 23 00-0079	LF		6", 16 Ounce, Box Style Copper Gutter.....	28.21	6.45
			<i>For Up To 100', Add</i>	4.42	
			<i>For >100' To 250', Add</i>	1.94	
			<i>For >1,000', Deduct</i>	-1.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0080 LF 7", 16 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	33.82 5.08 2.26 -1.14	6.87
07 71 23 00-0081 LF 8", 16 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	34.66 5.28 2.34 -1.21	7.29
07 71 23 00-0082 LF 5", 20 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	29.63 4.44 1.97 -0.98	5.88
07 71 23 00-0083 LF 6", 20 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	31.60 4.76 2.11 -1.07	6.45
07 71 23 00-0084 LF 7", 20 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	37.20 5.42 2.43 -1.14	6.87
07 71 23 00-0085 LF 8", 20 Ounce, Box Style Copper Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	38.05 5.61 2.51 -1.21	7.29
07 71 23 00-0086 Copper Gutter End Caps (07 71 23 00-0059)		
07 71 23 00-0087 K-Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0088 EA 4", K-Style Copper Gutter End Cap	6.55	
07 71 23 00-0089 EA 5", K-Style Copper Gutter End Cap	6.97	
07 71 23 00-0090 EA 6", K-Style Copper Gutter End Cap	7.38	
07 71 23 00-0091 EA 7", K-Style Copper Gutter End Cap	18.46	
07 71 23 00-0092 EA 8", K-Style Copper Gutter End Cap	22.35	
07 71 23 00-0093 Half Round, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0094 EA 4", Half Round Copper Gutter End Cap	7.78	
07 71 23 00-0095 EA 5", Half Round Copper Gutter End Cap	8.66	
07 71 23 00-0096 EA 6", Half Round Copper Gutter End Cap	12.71	
07 71 23 00-0097 EA 7", Half Round Copper Gutter End Cap	36.85	
07 71 23 00-0098 EA 8", Half Round Copper Gutter End Cap	43.40	
07 71 23 00-0099 Box Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0100 EA 5", Box Style Copper Gutter End Cap	14.31	
07 71 23 00-0101 EA 6", Box Style Copper Gutter End Cap	14.99	
07 71 23 00-0102 EA 7", Box Style Copper Gutter End Cap	15.66	
07 71 23 00-0103 EA 8", Box Style Copper Gutter End Cap	17.02	
07 71 23 00-0104 Copper Gutter Miters (07 71 23 00-0059) Note: Inside or outside miters.		
07 71 23 00-0105 K-Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0106 EA 4", K-Style Copper Gutter Miter	40.93	
07 71 23 00-0107 EA 5", K-Style Copper Gutter Miter	46.19	
07 71 23 00-0108 EA 6", K-Style Copper Gutter Miter	65.18	
07 71 23 00-0109 EA 7", K-Style Copper Gutter Miter	90.89	
07 71 23 00-0110 EA 8", K-Style Copper Gutter Miter	106.22	
07 71 23 00-0111 Half Round, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0112 EA 4", Half Round Copper Gutter Miter	62.09	
07 71 23 00-0113 EA 5", Half Round Copper Gutter Miter	57.91	
07 71 23 00-0114 EA 6", Half Round Copper Gutter Miter	82.14	
07 71 23 00-0115 EA 7", Half Round Copper Gutter Miter	97.48	
07 71 23 00-0116 EA 8", Half Round Copper Gutter Miter	114.74	
07 71 23 00-0117 Box Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0118 EA 5", 16 Ounce Box Style Copper Gutter Miter	68.21	
07 71 23 00-0119 EA 6", 16 Ounce Box Style Copper Gutter Miter	70.54	
07 71 23 00-0120 EA 7", 16 Ounce Box Style Copper Gutter Miter	76.93	
07 71 23 00-0121 EA 8", 16 Ounce Box Style Copper Gutter Miter	78.67	
07 71 23 00-0122 EA 5", 20 Ounce Box Style Copper Gutter Miter	74.97	
07 71 23 00-0123 EA 6", 20 Ounce Box Style Copper Gutter Miter	77.31	
07 71 23 00-0124 EA 7", 20 Ounce Box Style Copper Gutter Miter	83.70	
07 71 23 00-0125 EA 8", 20 Ounce Box Style Copper Gutter Miter	91.58	
07 71 23 00-0126 Copper Gutter Wire Strainers (07 71 23 00-0059)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71	23 00-0127	EA	2" Diameter, Round Copper Wire Strainer	18.54	3.50
07 71	23 00-0128	EA	3" Diameter, Round Copper Wire Strainer	22.24	3.50
07 71	23 00-0129	EA	4" Diameter, Round Copper Wire Strainer	34.30	3.50
07 71	23 00-0130	EA	5" Diameter, Round Copper Wire Strainer	44.80	3.50
07 71	23 00-0131	EA	6" Diameter, Round Copper Wire Strainer	53.60	3.50
07 71	23 00-0132		Copper Downspouts (07 71 23 00-0059) Note: Includes elbows, hangers and fasteners.		
07 71	23 00-0133		Round Copper Downspouts (07 71 23 00-0132)		
07 71	23 00-0134	LF	2" Diameter, 16 Ounce, Round Copper Downspout	25.09	3.36
			For Up To 100', Add	3.06	
			For >100 To 250', Add	1.44	
			For >1,000', Deduct	-0.36	
07 71	23 00-0135	LF	3" Diameter, 16 Ounce, Round Copper Downspout	17.77	3.36
			For Up To 100', Add	2.32	
			For >100 To 250', Add	1.07	
			For >1,000', Deduct	-0.36	
07 71	23 00-0136	LF	4" Diameter, 16 Ounce, Round Copper Downspout	22.15	3.36
			For Up To 100', Add	2.76	
			For >100 To 250', Add	1.29	
			For >1,000', Deduct	-0.36	
07 71	23 00-0137	LF	5" Diameter, 16 Ounce, Round Copper Downspout	34.81	3.36
			For Up To 100', Add	4.03	
			For >100 To 250', Add	1.92	
			For >1,000', Deduct	-0.36	
07 71	23 00-0138	LF	6" Diameter, 16 Ounce, Round Copper Downspout	44.49	3.36
			For Up To 100', Add	5.00	
			For >100 To 250', Add	2.41	
			For >1,000', Deduct	-0.36	
07 71	23 00-0139	LF	3" Diameter, 20 Ounce, Round Copper Downspout	23.70	3.36
			For Up To 100', Add	2.92	
			For >100 To 250', Add	1.37	
			For >1,000', Deduct	-0.36	
07 71	23 00-0140	LF	4" Diameter, 20 Ounce, Round Copper Downspout	30.46	3.36
			For Up To 100', Add	3.59	
			For >100 To 250', Add	1.71	
			For >1,000', Deduct	-0.36	
07 71	23 00-0141	LF	5" Diameter, 20 Ounce, Round Copper Downspout	45.80	3.36
			For Up To 100', Add	5.13	
			For >100 To 250', Add	2.47	
			For >1,000', Deduct	-0.36	
07 71	23 00-0142		Square Copper Downspouts (07 71 23 00-0132)		
07 71	23 00-0143	LF	3" Diameter, 16 Ounce, Square Copper Downspout	12.60	3.36
			For Up To 100', Add	1.81	
			For >100 To 250', Add	0.81	
			For >1,000', Deduct	-0.36	
07 71	23 00-0144	LF	4" Diameter, 16 Ounce, Square Copper Downspout	15.51	3.36
			For Up To 100', Add	2.10	
			For >100 To 250', Add	0.96	
			For >1,000', Deduct	-0.36	
07 71	23 00-0145	LF	5" Diameter, 16 Ounce, Square Copper Downspout	21.79	3.36
			For Up To 100', Add	2.73	
			For >100 To 250', Add	1.27	
			For >1,000', Deduct	-0.36	
07 71	23 00-0146	LF	3" Diameter, 20 Ounce, Square Copper Downspout	14.40	3.36
			For Up To 100', Add	1.99	
			For >100 To 250', Add	0.90	
			For >1,000', Deduct	-0.36	
07 71	23 00-0147	LF	4" Diameter, 20 Ounce, Square Copper Downspout	18.03	3.36
			For Up To 100', Add	2.35	
			For >100 To 250', Add	1.08	
			For >1,000', Deduct	-0.36	
07 71	23 00-0148	LF	5" Diameter, 20 Ounce, Square Copper Downspout	25.48	3.36
			For Up To 100', Add	3.09	
			For >100 To 250', Add	1.46	
			For >1,000', Deduct	-0.36	
07 71	23 00-0149		Rectangular Copper Downspouts (07 71 23 00-0132)		
07 71	23 00-0150	LF	2" x 3", 16 Ounce, Rectangular Copper Downspout	18.22	3.36
			For Up To 100', Add	2.37	
			For >100 To 250', Add	1.09	
			For >1,000', Deduct	-0.36	
07 71	23 00-0151	LF	3" x 4", 16 Ounce, Rectangular Copper Downspout	22.79	3.36
			For Up To 100', Add	2.83	
			For >100 To 250', Add	1.32	
			For >1,000', Deduct	-0.36	
07 71	23 00-0152	LF	4" x 5", 16 Ounce, Rectangular Copper Downspout	32.01	3.36
			For Up To 100', Add	3.75	
			For >100 To 250', Add	1.78	
			For >1,000', Deduct	-0.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0153 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout.....	21.06	3.36
<i>For Up To 100', Add</i>	2.65	
<i>For >100 To 250', Add</i>	1.24	
<i>For >1,000', Deduct</i>	-0.36	
07 71 23 00-0154 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout.....	26.73	3.36
<i>For Up To 100', Add</i>	3.22	
<i>For >100 To 250', Add</i>	1.52	
<i>For >1,000', Deduct</i>	-0.36	
07 71 23 00-0155 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout.....	37.95	3.36
<i>For Up To 100', Add</i>	4.34	
<i>For >100 To 250', Add</i>	2.08	
<i>For >1,000', Deduct</i>	-0.36	
07 71 23 00-0156 Copper Devices And Accessories (07 71 23 00-0059)		
07 71 23 00-0157 EA Thru-Wall Copper Scupper Outlet.....	202.74	24.19
07 71 23 00-0158 EA Copper Leader/Conductor Head.....	286.21	26.88
07 71 23 00-0159 EA Copper Eave Box.....	137.01	21.02
07 71 23 00-0160 Galvanized Steel Gutters And Downspouts (07 71 23)		
07 71 23 00-0161 Galvanized Steel Gutters (07 71 23 00-0160)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0162 K-Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0163 LF 5", 26 Gauge, K-Style Galvanized Steel Gutter.....	12.77	5.19
<i>For Up To 100', Add</i>	2.56	
<i>For >100' To 250', Add</i>	1.07	
<i>For >1,000', Deduct</i>	-0.86	
<i>For Kynar 500® Finish, Add</i>	1.90	
<i>For 24 Gauge, Add</i>	1.18	
<i>For 22 Gauge, Add</i>	2.32	
07 71 23 00-0164 LF 6", 26 Gauge, K-Style Galvanized Steel Gutter.....	14.48	5.47
<i>For Up To 100', Add</i>	2.79	
<i>For >100' To 250', Add</i>	1.17	
<i>For >1,000', Deduct</i>	-0.90	
<i>For Kynar 500® Finish, Add</i>	2.48	
<i>For 24 Gauge, Add</i>	1.54	
<i>For 22 Gauge, Add</i>	3.03	
07 71 23 00-0165 LF 7", 26 Gauge, K-Style Galvanized Steel Gutter.....	26.61	5.74
<i>For Up To 100', Add</i>	4.11	
<i>For >100' To 250', Add</i>	1.81	
<i>For >1,000', Deduct</i>	-0.97	
<i>For Kynar 500® Finish, Add</i>	7.62	
<i>For 24 Gauge, Add</i>	4.74	
<i>For 22 Gauge, Add</i>	9.32	
07 71 23 00-0166 LF 8", 26 Gauge, K-Style Galvanized Steel Gutter.....	28.24	6.45
<i>For Up To 100', Add</i>	4.42	
<i>For >100' To 250', Add</i>	1.94	
<i>For >1,000', Deduct</i>	-1.07	
<i>For Kynar 500® Finish, Add</i>	7.92	
<i>For 24 Gauge, Add</i>	4.93	
<i>For 22 Gauge, Add</i>	9.67	
07 71 23 00-0167 Half Round Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0168 LF 5", 26 Gauge, Half Round Galvanized Steel Gutter.....	17.13	5.19
<i>For Up To 100', Add</i>	3.00	
<i>For >100' To 250', Add</i>	1.28	
<i>For >1,000', Deduct</i>	-0.86	
<i>For Kynar 500® Finish, Add</i>	3.86	
<i>For 24 Gauge, Add</i>	2.40	
<i>For 22 Gauge, Add</i>	4.72	
07 71 23 00-0169 LF 6", 26 Gauge, Half Round Galvanized Steel Gutter.....	20.90	5.47
<i>For Up To 100', Add</i>	3.44	
<i>For >100' To 250', Add</i>	1.49	
<i>For >1,000', Deduct</i>	-0.90	
<i>For Kynar 500® Finish, Add</i>	5.37	
<i>For 24 Gauge, Add</i>	3.34	
<i>For 22 Gauge, Add</i>	6.56	
07 71 23 00-0170 LF 7", 26 Gauge, Half Round Galvanized Steel Gutter.....	47.66	5.74
<i>For Up To 100', Add</i>	6.22	
<i>For >100' To 250', Add</i>	2.87	
<i>For >1,000', Deduct</i>	-0.97	
<i>For Kynar 500® Finish, Add</i>	17.10	
<i>For 24 Gauge, Add</i>	10.64	
<i>For 22 Gauge, Add</i>	20.89	
07 71 23 00-0171 LF 8", 26 Gauge, Half Round Galvanized Steel Gutter.....	50.97	6.45
<i>For Up To 100', Add</i>	6.69	
<i>For >100' To 250', Add</i>	3.08	
<i>For >1,000', Deduct</i>	-1.07	
<i>For Kynar 500® Finish, Add</i>	18.14	
<i>For 24 Gauge, Add</i>	11.29	
<i>For 22 Gauge, Add</i>	22.18	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0172			Box Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0173	LF		5", 24 Gauge, Box Style Galvanized Steel Gutter.....	20.34	5.88
			For Up To 100', Add	3.51	
			For >100' To 250', Add	1.51	
			For >1,000', Deduct	-0.98	
			For Kynar 500® Finish, Add	4.73	
			For 22 Gauge, Add	2.31	
07 71 23 00-0174	LF		6", 24 Gauge, Box Style Galvanized Steel Gutter.....	23.53	6.45
			For Up To 100', Add	3.95	
			For >100' To 250', Add	1.71	
			For >1,000', Deduct	-1.07	
			For Kynar 500® Finish, Add	5.80	
			For 22 Gauge, Add	2.83	
07 71 23 00-0175	LF		7", 24 Gauge, Box Style Galvanized Steel Gutter.....	28.29	5.74
			For Up To 100', Add	4.28	
			For >100' To 250', Add	1.90	
			For >1,000', Deduct	-0.97	
			For Kynar 500® Finish, Add	8.38	
			For 22 Gauge, Add	4.10	
07 71 23 00-0176	LF		8", 24 Gauge, Box Style Galvanized Steel Gutter.....	31.93	7.29
			For Up To 100', Add	5.00	
			For >100' To 250', Add	2.20	
			For >1,000', Deduct	-1.21	
			For Kynar 500® Finish, Add	8.94	
			For 22 Gauge, Add	4.37	
07 71 23 00-0177			Galvanized Steel Gutter End Caps (07 71 23 00-0160)		
07 71 23 00-0178			K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0179	EA		5", K-Style Galvanized Steel Gutter End Cap.....	5.34	
			For Kynar 500® Finish, Add	1.14	
07 71 23 00-0180	EA		6", K-Style Galvanized Steel Gutter End Cap.....	6.00	
			For Kynar 500® Finish, Add	1.44	
07 71 23 00-0181	EA		7", K-Style Galvanized Steel Gutter End Cap.....	11.90	
			For Kynar 500® Finish, Add	4.09	
07 71 23 00-0182	EA		8", K-Style Galvanized Steel Gutter End Cap.....	16.84	
			For Kynar 500® Finish, Add	6.31	
07 71 23 00-0183			Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0184	EA		5", Half Round Galvanized Steel Gutter End Cap.....	6.59	
			For Kynar 500® Finish, Add	1.70	
07 71 23 00-0185	EA		6", Half Round Galvanized Steel Gutter End Cap.....	7.44	
			For Kynar 500® Finish, Add	2.08	
07 71 23 00-0186	EA		7", Half Round Galvanized Steel Gutter End Cap.....	13.03	
			For Kynar 500® Finish, Add	4.60	
07 71 23 00-0187	EA		8", Half Round Galvanized Steel Gutter End Cap.....	17.28	
			For Kynar 500® Finish, Add	6.51	
07 71 23 00-0188			Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0189	EA		5", Box Style Galvanized Steel Gutter End Cap.....	11.06	
			For Kynar 500® Finish, Add	3.71	
07 71 23 00-0190	EA		6", Box Style Galvanized Steel Gutter End Cap.....	13.12	
			For Kynar 500® Finish, Add	4.64	
07 71 23 00-0191	EA		7", Box Style Galvanized Steel Gutter End Cap.....	14.58	
			For Kynar 500® Finish, Add	5.30	
07 71 23 00-0192	EA		8", Box Style Galvanized Steel Gutter End Cap.....	19.21	
			For Kynar 500® Finish, Add	7.38	
07 71 23 00-0193			Galvanized Steel Gutter Miters (07 71 23 00-0160)		
			Note: Inside or outside miters.		
07 71 23 00-0194			K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0195	EA		5", K-Style Galvanized Steel Gutter Miter.....	31.29	
			For Kynar 500® Finish, Add	7.71	
07 71 23 00-0196	EA		6", K-Style Galvanized Steel Gutter Miter.....	47.91	
			For Kynar 500® Finish, Add	14.75	
07 71 23 00-0197	EA		7", K-Style Galvanized Steel Gutter Miter.....	73.76	
			For Kynar 500® Finish, Add	25.94	
07 71 23 00-0198	EA		8", K-Style Galvanized Steel Gutter Miter.....	82.60	
			For Kynar 500® Finish, Add	29.41	
07 71 23 00-0199			Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0200	EA		5", Half Round Galvanized Steel Gutter Miter.....	40.97	
			For Kynar 500® Finish, Add	12.06	
07 71 23 00-0201	EA		6", Half Round Galvanized Steel Gutter Miter.....	45.77	
			For Kynar 500® Finish, Add	13.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0202 EA 7", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	120.29 46.88	
07 71 23 00-0203 EA 8", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	127.20 49.48	
07 71 23 00-0204 Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0205 EA 5", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	39.04 11.20	
07 71 23 00-0206 EA 6", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	60.73 20.52	
07 71 23 00-0207 EA 7", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	77.62 27.68	
07 71 23 00-0208 EA 8", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	82.60 29.41	
07 71 23 00-0209 Galvanized Steel Gutter Wire Strainers (07 71 23 00-0160)		
07 71 23 00-0210 EA 3" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	13.22 2.66	3.50
07 71 23 00-0211 EA 4" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	18.26 4.93	3.50
07 71 23 00-0212 Galvanized Steel Downspouts (07 71 23 00-0160) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0213 Round Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0214 LF 3" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	6.72 1.22 0.52 -0.36 1.39 0.86 1.69	3.36
07 71 23 00-0215 LF 4" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	8.04 1.35 0.58 -0.36 1.98 1.23 2.42	3.36
07 71 23 00-0216 LF 5" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	10.48 1.59 0.71 -0.36 3.08 1.92 3.76	3.36
07 71 23 00-0217 LF 6" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	21.73 2.72 1.27 -0.36 8.14 5.07 9.95	3.36
07 71 23 00-0218 Square Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0219 LF 4" x 4", 26 Gauge, Square Galvanized Steel Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	7.46 1.29 0.56 -0.36 1.72 1.07 2.10	3.36
07 71 23 00-0220 LF 5" x 5", 26 Gauge, Square Galvanized Steel Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	9.19 1.47 0.64 -0.36 2.50 1.55 3.05	3.36
07 71 23 00-0221 Rectangular Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0222 LF 2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	6.82 1.23 0.52 -0.36 1.43 0.89 1.75	3.36

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0223	LF		3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....	8.34	3.36
			<i>For Up To 100', Add</i>	1.38	
			<i>For >100 To 250', Add</i>	0.60	
			<i>For >1,000', Deduct</i>	-0.36	
			<i>For Kynar 500® Finish, Add</i>	2.12	
			<i>For 24 Gauge, Add</i>	1.32	
			<i>For 22 Gauge, Add</i>	2.59	
07 71 23 00-0224	LF		4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....	14.39	3.36
			<i>For Up To 100', Add</i>	1.99	
			<i>For >100 To 250', Add</i>	0.90	
			<i>For >1,000', Deduct</i>	-0.36	
			<i>For Kynar 500® Finish, Add</i>	4.84	
			<i>For 24 Gauge, Add</i>	3.01	
			<i>For 22 Gauge, Add</i>	5.91	
07 71 23 00-0225			Galvanized Steel Devices (07 71 23 00-0160)		
07 71 23 00-0226	EA		Galvanized Steel Leader/Conductor Head.....	250.56	26.88
			<i>For Kynar 500® Finish, Add</i>	88.56	
07 71 23 00-0227	EA		Thru-Wall Galvanized Steel Scupper Outlet	141.62	24.19
			<i>For Kynar 500® Finish, Add</i>	27.44	
07 71 23 00-0228			Stainless Steel Gutters And Downspouts (07 71 23)		
			Note: AISI type 304 stainless steel.		
07 71 23 00-0229			Stainless Steel Gutters (07 71 23 00-0228)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0230			K-Style, Stainless Steel Gutters (07 71 23 00-0229)		
07 71 23 00-0231	LF		5", 26 Gauge, K-Style Stainless Steel Gutter.....	28.15	5.19
			<i>For Up To 100', Add</i>	4.10	
			<i>For >100' To 250', Add</i>	1.84	
			<i>For >1,000', Deduct</i>	-0.86	
			<i>For 316 Stainless Steel, Add</i>	7.45	
			<i>For 24 Gauge, Add</i>	6.47	
			<i>For 22 Gauge, Add</i>	12.94	
			<i>For 20 Gauge, Add</i>	19.40	
07 71 23 00-0232	LF		6", 26 Gauge, K-Style Stainless Steel Gutter.....	33.47	5.47
			<i>For Up To 100', Add</i>	4.69	
			<i>For >100' To 250', Add</i>	2.12	
			<i>For >1,000', Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	9.31	
			<i>For 24 Gauge, Add</i>	8.09	
			<i>For 22 Gauge, Add</i>	16.17	
			<i>For 20 Gauge, Add</i>	24.26	
07 71 23 00-0233			Half Round, Stainless Steel Gutters (07 71 23 00-0229)		
07 71 23 00-0234	LF		5", 26 Gauge, Half Round Stainless Steel Gutter	38.22	5.19
			<i>For Up To 100', Add</i>	5.10	
			<i>For >100' To 250', Add</i>	2.34	
			<i>For >1,000', Deduct</i>	-0.86	
			<i>For 316 Stainless Steel, Add</i>	11.27	
			<i>For 24 Gauge, Add</i>	9.79	
			<i>For 22 Gauge, Add</i>	19.58	
			<i>For 20 Gauge, Add</i>	29.37	
07 71 23 00-0235	LF		6", 26 Gauge, Half Round Stainless Steel Gutter	46.00	5.47
			<i>For Up To 100', Add</i>	5.95	
			<i>For >100' To 250', Add</i>	2.75	
			<i>For >1,000', Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	14.07	
			<i>For 24 Gauge, Add</i>	12.22	
			<i>For 22 Gauge, Add</i>	24.44	
			<i>For 20 Gauge, Add</i>	36.66	
07 71 23 00-0236			Box Style, Stainless Steel Gutters (07 71 23 00-0229)		
07 71 23 00-0237	LF		5", 26 Gauge, Box Style Stainless Steel Gutter	37.76	5.88
			<i>For Up To 100', Add</i>	5.25	
			<i>For >100' To 250', Add</i>	2.38	
			<i>For >1,000', Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	10.62	
			<i>For 24 Gauge, Add</i>	9.22	
			<i>For 22 Gauge, Add</i>	18.44	
			<i>For 20 Gauge, Add</i>	27.66	
			<i>For 18 Gauge, Add</i>	46.38	
			<i>For Seamless Gutter, Add</i>	0.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0238 LF 6", 26 Gauge, Box Style Stainless Steel Gutter	45.76	6.45
For Up To 100', Add	6.17	
For >100' To 250', Add	2.82	
For >1,000', Deduct	-1.07	
For 316 Stainless Steel, Add	13.34	
For 24 Gauge, Add	11.59	
For 22 Gauge, Add	23.17	
For 20 Gauge, Add	34.76	
For 18 Gauge, Add	58.28	
For Seamless Gutter, Add	-0.16	
07 71 23 00-0239 LF 7", 26 Gauge, Box Style Stainless Steel Gutter	53.78	6.87
For Up To 100', Add	7.08	
For >100' To 250', Add	3.26	
For >1,000', Deduct	-1.14	
For 316 Stainless Steel, Add	16.12	
For 24 Gauge, Add	14.00	
For 22 Gauge, Add	28.00	
For 20 Gauge, Add	42.01	
For 18 Gauge, Add	70.43	
For Seamless Gutter, Add	-0.42	
07 71 23 00-0240 LF 8", 26 Gauge, Box Style Stainless Steel Gutter	58.41	7.29
For Up To 100', Add	7.65	
For >100' To 250', Add	3.52	
For >1,000', Deduct	-1.21	
For 316 Stainless Steel, Add	17.61	
For 24 Gauge, Add	15.30	
For 22 Gauge, Add	30.59	
For 20 Gauge, Add	45.89	
For 18 Gauge, Add	76.94	
For Seamless Gutter, Add	-0.51	
07 71 23 00-0241 Stainless Steel Gutter End Caps (07 71 23 00-0228)		
07 71 23 00-0242 K-Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0243 EA 5", K-Style Stainless Steel Gutter End Cap	8.94	
For 316 Stainless Steel, Add	2.33	
07 71 23 00-0244 EA 6", K-Style Stainless Steel Gutter End Cap	10.17	
For 316 Stainless Steel, Add	2.80	
07 71 23 00-0245 Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0246 EA 5", Half Round Stainless Steel Gutter End Cap	10.47	
For 316 Stainless Steel, Add	2.91	
07 71 23 00-0247 EA 6", Half Round Stainless Steel Gutter End Cap	12.01	
For 316 Stainless Steel, Add	3.50	
07 71 23 00-0248 Box Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0249 EA 5", Box Style Stainless Steel Gutter End Cap	11.16	
For 316 Stainless Steel, Add	2.91	
07 71 23 00-0250 EA 6", Box Style Stainless Steel Gutter End Cap	12.70	
For 316 Stainless Steel, Add	3.50	
07 71 23 00-0251 EA 7", Box Style Stainless Steel Gutter End Cap	13.20	
For 316 Stainless Steel, Add	3.77	
07 71 23 00-0252 EA 8", Box Style Stainless Steel Gutter End Cap	15.96	
For 316 Stainless Steel, Add	4.65	
07 71 23 00-0253 Stainless Steel Gutter Miters (07 71 23 00-0228)		
Note: Inside or outside box miters.		
07 71 23 00-0254 K-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0255 EA 5", K-Style Stainless Steel Gutter Miter	45.83	
For 316 Stainless Steel, Add	12.03	
07 71 23 00-0256 EA 6", K-Style Stainless Steel Gutter Miter	71.33	
For 316 Stainless Steel, Add	21.35	
07 71 23 00-0257 Half Round, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0258 EA 5", Half Round Stainless Steel Gutter Miter	107.13	
For 316 Stainless Steel, Add	35.33	
07 71 23 00-0259 EA 6", Half Round Stainless Steel Gutter Miter	130.55	
For 316 Stainless Steel, Add	43.86	
07 71 23 00-0260 Box-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0261 EA 5", Box-Style Stainless Steel Gutter Miter	52.17	
For 316 Stainless Steel, Add	14.44	
07 71 23 00-0262 EA 6", Box-Style Stainless Steel Gutter Miter	82.57	
For 316 Stainless Steel, Add	25.62	
07 71 23 00-0263 EA 7", Box-Style Stainless Steel Gutter Miter	94.79	
For 316 Stainless Steel, Add	29.89	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0264	EA		8", Box-Style Stainless Steel Gutter Miter..... <i>For 316 Stainless Steel, Add</i>	107.15 34.17	
07 71 23 00-0265			Stainless Steel Gutter Wire Strainers (07 71 23 00-0228)		
07 71 23 00-0266	EA		3" Diameter, Round Stainless Steel Wire Strainer.....	39.13	3.50
07 71 23 00-0267	EA		4" Diameter, Round Stainless Steel Wire Strainer.....	40.00	3.50
07 71 23 00-0268			Stainless Steel Downspouts (07 71 23 00-0228) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0269			Round Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0270	LF		3" Diameter, 26 Gauge, Round Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i>	16.30 2.18 1.00 -0.36 4.81 4.18 8.36 12.53	3.36
07 71 23 00-0271	LF		4" Diameter, 26 Gauge, Round Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i>	21.21 2.67 1.24 -0.36 6.68 5.80 11.60 17.39	3.36
07 71 23 00-0272	LF		5" Diameter, 26 Gauge, Round Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i>	30.49 3.60 1.71 -0.36 10.20 8.86 17.72 26.58	3.36
07 71 23 00-0273			Rectangular Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0274	LF		2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i> <i>For 18 Gauge, Add</i>	16.66 2.21 1.02 -0.36 4.95 4.30 8.59 12.89 21.61	3.36
07 71 23 00-0275	LF		3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i> <i>For 18 Gauge, Add</i>	21.95 2.74 1.28 -0.36 6.96 6.04 12.08 18.13 30.39	3.36
07 71 23 00-0276	LF		4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i> <i>For 20 Gauge, Add</i> <i>For 18 Gauge, Add</i>	28.13 3.36 1.59 -0.36 9.31 8.08 16.16 24.25 40.65	3.36
07 71 23 00-0277			Stainless Steel Devices (07 71 23 00-0228)		
07 71 23 00-0278	EA		Thru-Wall Stainless Steel Scupper Outlet..... <i>For 316 Stainless Steel, Add</i>	227.90 46.66	31.54
07 71 23 00-0279	EA		Stainless Steel Leader/Conductor Head..... <i>For 316 Stainless Steel, Add</i>	345.60 104.70	31.54
07 71 23 00-0280			Vinyl Gutters And Downspouts (07 71 23)		
07 71 23 00-0281			Vinyl Gutters (07 71 23 00-0280) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0282			K-Style Vinyl Gutters (07 71 23 00-0281)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0283 LF 4", K-Style Vinyl Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	11.19 2.00 0.85 -0.58	3.50
07 71 23 00-0284 LF 5", K-Style Vinyl Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	13.94 2.27 0.99 -0.58	3.50
07 71 23 00-0285 Half Round Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0286 LF 4", Half Round Vinyl Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	11.50 2.03 0.87 -0.58	3.50
07 71 23 00-0287 LF 5", Half Round Vinyl Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i>	12.00 2.08 0.89 -0.58	3.50
07 71 23 00-0288 Vinyl Gutter End Caps (07 71 23 00-0280)		
07 71 23 00-0289 K-Style, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0290 EA 4", K-Style Vinyl Gutter End Cap	6.69	
07 71 23 00-0291 EA 5", K-Style Vinyl Gutter End Cap	8.97	
07 71 23 00-0292 Half Round, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0293 EA 4", Half Round Vinyl Gutter End Cap	7.53	
07 71 23 00-0294 EA 5", Half Round Vinyl Gutter End Cap	7.15	
07 71 23 00-0295 Vinyl Gutter Miters (07 71 23 00-0280) Note: Inside or outside miters.		
07 71 23 00-0296 K-Style, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0297 EA 4", K-Style Vinyl Gutter Miter	16.06	
07 71 23 00-0298 EA 5", K-Style Vinyl Gutter Miter	23.43	
07 71 23 00-0299 Half Round, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0300 EA 4", Half Round Vinyl Gutter Miter	16.06	
07 71 23 00-0301 EA 5", Half Round Vinyl Gutter Miter	17.33	
07 71 23 00-0302 Vinyl Downspouts (07 71 23 00-0280) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0303 Round Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0304 LF 2-1/2" Diameter, Round Vinyl Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i>	7.29 1.28 0.55 -0.36	3.36
07 71 23 00-0305 LF 3" Diameter, Round Vinyl Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i>	7.56 1.30 0.56 -0.36	3.36
07 71 23 00-0306 Square Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0307 LF 2-1/2", Square Vinyl Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i>	7.18 1.26 0.54 -0.36	3.36
07 71 23 00-0308 Rectangular Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0309 LF 2" x 3", Rectangular Vinyl Downspout <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i>	8.90 1.44 0.63 -0.36	3.36
07 71 23 00-0310 Gutter And Downspout Boots (07 71 23)		
07 71 23 00-0311 Cast Iron Roof Drainage Downspout Boots (07 71 23 00-0310)		
07 71 23 00-0312 EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	272.48	5.05
07 71 23 00-0313 EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	354.87	5.05
07 71 23 00-0314 EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....	423.39	5.05

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0315			Cast Iron Roof Drainage Downspout Boots With Cleanouts (07 71 23 00-0310)		
07 71 23 00-0316	EA		3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	470.50	5.05
07 71 23 00-0317	EA		4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	574.58	5.05
07 71 23 00-0318	EA		5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	1,041.96	5.05
07 71 23 00-0319			Wall Mounted Downspout Covers With Hinged Perforated Cover (07 71 23)		
07 71 23 00-0320	EA		3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....	958.54	35.01
			For Polished Brass Finish (-PB), Add	88.85	
			For Chrome Plated Finish (-CP), Add	133.28	
			For Vandal Proof (-U), Add	44.43	
07 71 23 00-0321	EA		4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....	981.88	46.68
			For Polished Brass Finish (-PB), Add	88.85	
			For Chrome Plated Finish (-CP), Add	133.28	
			For Vandal Proof (-U), Add	44.43	
07 71 23 00-0322	EA		6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....	1,052.53	57.07
			For Polished Brass Finish (-PB), Add	93.84	
			For Chrome Plated Finish (-CP), Add	140.76	
			For Vandal Proof (-U), Add	46.92	
07 71 23 00-0323	EA		8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....	1,127.67	72.05
			For Polished Brass Finish (-PB), Add	98.36	
			For Chrome Plated Finish (-CP), Add	147.54	
			For Vandal Proof (-U), Add	49.18	
07 71 23 00-0324	EA		10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10).....	1,218.30	88.77
			For Polished Brass Finish (-PB), Add	104.08	
			For Chrome Plated Finish (-CP), Add	156.12	
			For Vandal Proof (-U), Add	52.04	
07 71 23 00-0325	EA		12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12).....	1,351.84	123.92
			For Polished Brass Finish (-PB), Add	110.40	
			For Chrome Plated Finish (-CP), Add	165.60	
			For Vandal Proof (-U), Add	55.20	
07 71 23 00-0326	EA		15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15).....	1,511.03	172.35
			For Polished Brass Finish (-PB), Add	116.64	
			For Chrome Plated Finish (-CP), Add	174.95	
			For Vandal Proof (-U), Add	58.32	
07 71 23 00-0327			Wall Mounted Downspout Nozzle (07 71 23)		
07 71 23 00-0328	EA		3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03)	261.83	35.01
			For Nickel Bronze Finish (-NB), Add	134.27	
			For Polished Bronze Finish (-PB), Add	105.50	
			For Chrome Plated Finish (-CP), Add	170.71	
07 71 23 00-0329	EA		4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04)	285.17	46.68
			For Nickel Bronze Finish (-NB), Add	134.27	
			For Polished Bronze Finish (-PB), Add	105.50	
			For Chrome Plated Finish (-CP), Add	170.71	
07 71 23 00-0330	EA		6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06)	569.13	57.07
			For Nickel Bronze Finish (-NB), Add	136.50	
			For Polished Bronze Finish (-PB), Add	77.35	
			For Chrome Plated Finish (-CP), Add	200.20	
07 71 23 00-0331	EA		8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08)	834.79	72.05
			For Nickel Bronze Finish (-NB), Add	117.42	
			For Polished Bronze Finish (-PB), Add	89.79	
			For Chrome Plated Finish (-CP), Add	200.30	
07 71 23 00-0332	EA		10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10)	1,074.22	88.77
			For Nickel Bronze Finish (-NB), Add	152.44	
			For Polished Bronze Finish (-PB), Add	116.57	
			For Chrome Plated Finish (-CP), Add	260.04	
07 71 23 00-0333	EA		12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12)	1,375.92	123.92
			For Nickel Bronze Finish (-NB), Add	191.77	
			For Polished Bronze Finish (-PB), Add	146.65	
			For Chrome Plated Finish (-CP), Add	327.14	
07 71 23 00-0334			Leaf Guards And Cleaning (07 71 23)		
07 71 23 00-0335	LF		Aluminum Mesh Gutter Leaf Guard	3.12	0.94
			For Up To 100', Add	0.59	
			For >100' To 250', Add	0.25	
			For >1,000', Deduct	-0.19	
07 71 23 00-0336	LF		Vinyl Mesh Gutter Leaf Guard.....	2.82	0.94
			For Up To 100', Add	0.56	
			For >100' To 250', Add	0.23	
			For >1,000', Deduct	-0.19	
07 71 23 00-0337	LF		6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	12.25	1.17
			For Up To 100', Add	1.58	
			For >100' To 250', Add	0.73	
			For >1,000', Deduct	-0.24	
07 71 23 00-0338	LF		9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	17.21	1.17
			For Up To 100', Add	2.08	
			For >100' To 250', Add	0.98	
			For >1,000', Deduct	-0.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0339 LF 6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh.....	9.34	1.17
For Up To 100', Add	1.21	
For >100' To 250', Add	0.56	
For >1,000', Deduct	-0.19	
07 71 23 00-0340 LF 9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh.....	14.09	1.17
For Up To 100', Add	1.69	
For >100' To 250', Add	0.80	
For >1,000', Deduct	-0.19	
07 71 23 00-0341 EA Cleanout Roof Drain	145.14	
Note: Includes removing dome and flushing.		
07 71 23 00-0342 LF Cleanout Roof Gutters And Downspouts.....	1.72	
 07 71 26 Reglets (07 71)		
07 71 26 00-0001 Counter Flashing With Reglet (07 71 26)		
Note: Includes reglet cut.		
07 71 26 00-0002 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004 LF 28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.43	4.78
07 71 26 00-0005 LF 26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.57	4.78
07 71 26 00-0006 LF 24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.80	4.78
07 71 26 00-0007 LF 22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	15.68	4.78
07 71 26 00-0008 LF 20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.18	4.78
07 71 26 00-0009 LF 18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.76	4.78
07 71 26 00-0010 KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011 LF 28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	16.62	4.78
07 71 26 00-0012 LF 26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	16.82	4.78
07 71 26 00-0013 LF 24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	17.15	4.78
07 71 26 00-0014 LF 22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	18.43	4.78
07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.16	4.78
07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	20.00	4.78
07 71 26 00-0017 Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.07	4.78
07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.94	4.78
07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	16.81	4.78
07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	17.44	4.78
07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	18.83	4.78
07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	20.86	4.78
07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	13.08	4.78
07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	13.64	4.78
07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	14.19	4.78
07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	14.59	4.78
07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	15.49	4.78
07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet	16.78	4.78
07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	14.66	4.78
07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	15.47	4.78
07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	16.27	4.78
07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	16.85	4.78
07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	18.15	4.78
07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	20.03	4.78
07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0039)		
07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	16.22	4.78
07 71 26 00-0042 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	17.40	4.78
07 71 26 00-0043 Copper Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0044 Copper Counter Flashing With Reglet (07 71 26 00-0043)		
07 71 26 00-0045 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	30.68	4.78

07 72 Roof Accessories (07 70)

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 72 13 Manufactured Curbs (07 72)

07 72 13 00-0001	Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13)</small> Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0002	Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0001)</small> Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003	18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0002)</small>		
07 72 13 00-0004	9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0005	EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	460.48 36.53 82.57 37.90 74.07 93.02	95.23
07 72 13 00-0006	EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	471.96 37.67 84.87 46.51 94.74 111.97	95.23
07 72 13 00-0007	EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	501.51 39.44 89.59 56.85 117.14 129.20	107.14
07 72 13 00-0008	EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	545.56 43.84 98.40 75.79 153.31 165.37	107.14
07 72 13 00-0009	EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	578.11 47.10 104.91 15.76 100.17 110.50	107.14
07 72 13 00-0010	EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	732.15 61.31 134.53 125.75 203.27 236.00	119.04
07 72 13 00-0011	EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	475.80 38.06 85.64 9.04 77.95 108.95	95.23
07 72 13 00-0012	EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	503.42 39.63 89.97 72.35 144.70 173.98	107.14
07 72 13 00-0013	EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	528.32 42.12 94.95 89.58 165.37 189.49	107.14
07 72 13 00-0014	EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	537.90 43.08 96.87 16.02 98.70 121.10	107.14
07 72 13 00-0015	EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	701.51 58.25 128.40 20.67 111.97 146.42	119.04
07 72 13 00-0016	EA 38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	765.52 63.46 140.01 25.32 130.40 171.74	130.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0017 EA 50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	591.52	107.14
<i>For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add</i>	48.44	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	107.59	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0018 EA 50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	640.23	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.12	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	116.14	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0019 EA 50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	661.30	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.23	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	120.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0020 EA 50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	725.31	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.44	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	131.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0021 EA 51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	772.10	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.93	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	140.14	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0022 EA 51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	834.21	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.95	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	151.37	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0023 EA 62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	661.30	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.23	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	120.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0024 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	704.24	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.33	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	127.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0025 EA 62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	770.19	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.73	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	139.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	210.16	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	294.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	344.52	
07 72 13 00-0026 EA 62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	789.33	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.65	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	143.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0027 EA 62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	855.28	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.05	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	155.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	
07 72 13 00-0028 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0029 EA 26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	485.37	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.01	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	87.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0030 EA 26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	491.12	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.59	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	88.70	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	46.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.74	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.97	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0031	EA		26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	520.66	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	41.35	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	93.42	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0032	EA		26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	570.45	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.33	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	103.38	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0033	EA		26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	606.84	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.97	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	110.66	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0034	EA		26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	755.13	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.61	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	139.12	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0035	EA		38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	493.03	95.23
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.78	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	89.08	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0036	EA		38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	555.13	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.80	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	100.31	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0037	EA		38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	593.43	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.63	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	107.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0038	EA		38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	637.48	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.04	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	116.78	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0039	EA		38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	732.15	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.31	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	134.53	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0040	EA		38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	803.82	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.29	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	147.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0041	EA		50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	614.50	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	50.74	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	112.19	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0042	EA		50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	659.38	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.03	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	119.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0043	EA		50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	690.02	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.10	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	126.10	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0044	EA		50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	755.95	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.50	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	138.10	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0045 EA 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	808.49	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.56	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	147.41	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0046 EA 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	876.34	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.16	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	159.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0047 EA 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	690.02	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.10	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	126.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0048 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	734.88	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.39	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	133.88	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0049 EA 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	802.74	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.99	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	146.26	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	210.16	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	294.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	344.52	
07 72 13 00-0050 EA 62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	827.63	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.48	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	151.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0051 EA 62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	897.40	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.27	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	164.01	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	
07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0053 EA 26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	498.78	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.36	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	90.23	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0054 EA 26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	504.52	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.93	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	91.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	46.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.74	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.97	
07 72 13 00-0055 EA 26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	530.24	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	95.34	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0056 EA 26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	585.77	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	47.86	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	106.44	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0057 EA 26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	627.90	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.08	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.87	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0058 EA 26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	781.94	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.29	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	144.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0059	EA		38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....504.52	504.52	95.23
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.93	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	91.38	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0060	EA		38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....530.24	530.24	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.31	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	95.34	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0061	EA		38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....627.90	627.90	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.08	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.87	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0062	EA		38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....673.86	673.86	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.67	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	124.06	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0063	EA		38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....755.13	755.13	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.61	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	139.12	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0064	EA		38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....828.72	828.72	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.78	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	152.65	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0065	EA		50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....629.82	629.82	107.14
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.27	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	115.25	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0066	EA		50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....636.00	636.00	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	51.70	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	115.30	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0067	EA		50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....709.17	709.17	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.01	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	129.93	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0068	EA		50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....778.93	778.93	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.80	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	142.69	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0069	EA		51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....831.47	831.47	142.85
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.86	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	152.01	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0070	EA		51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....903.15	903.15	154.75
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.84	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	165.16	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0071	EA		62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....709.17	709.17	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.01	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	129.93	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0072	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....755.95	755.95	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	62.50	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	138.10	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0073 EA 62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	827.63	142.85
<i>For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add</i>	68.48	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	151.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	210.16	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	294.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	344.52	
07 72 13 00-0074 EA 62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	852.53	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.97	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	156.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0075 EA 62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	926.13	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	77.14	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	169.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	
07 72 13 00-0076 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0002)</small>		
07 72 13 00-0077 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0078 EA 26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	439.41	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	34.42	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	78.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0079 EA 26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	464.30	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.91	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	83.34	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	46.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.74	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.97	
07 72 13 00-0080 EA 26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	535.98	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	96.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0081 EA 26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	593.43	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.63	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	107.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0082 EA 26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	635.56	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.84	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	116.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0083 EA 26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	812.58	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.35	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	150.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0084 EA 38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	510.26	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	41.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	92.53	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0085 EA 38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	551.30	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.42	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	99.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0086 EA 38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	570.45	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.33	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	103.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0087 EA 38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	587.68	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.06	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	106.82	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0088 EA 38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....766.62		119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	64.76	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	141.42	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0089 EA 38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....842.12		130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	71.12	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	155.33	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	130.40	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	171.74	
07 72 13 00-0090 EA 50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....637.48		107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	53.04	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	116.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0091 EA 50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....688.10		119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	56.91	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	125.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	111.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	182.60	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	217.05	
07 72 13 00-0092 EA 50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....718.74		119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	59.97	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	131.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0093 EA 50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....790.42		130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	65.95	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	144.99	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	155.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	232.55	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	287.67	
07 72 13 00-0094 EA 51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....842.95		142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	70.01	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	154.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0095 EA 51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....916.56		154.75
For Sloped Roofs Up To 1 In 12 Pitch, Add	76.18	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	167.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	213.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	322.13	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	380.69	
07 72 13 00-0096 EA 62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....718.74		119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	59.97	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	131.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0097 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....765.52		130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	63.46	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	140.01	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0098 EA 62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....839.13		142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	69.63	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	153.54	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	210.16	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	294.56	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	344.52	
07 72 13 00-0099 EA 62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....865.93		142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.31	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	158.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0100 EA 62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....941.45		154.75
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.67	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	172.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	265.28	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	351.41	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	461.66	

07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0102	EA			26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	456.64	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.14	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	81.81	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0103	EA			26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	485.37	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.01	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	87.55	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	46.51	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.74	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.97	
07 72 13 00-0104	EA			26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	564.70	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	45.76	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	102.23	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0105	EA			26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	627.90	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.08	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.87	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0106	EA			26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	679.60	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.25	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	125.21	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0107	EA			26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	820.24	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.12	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	152.14	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0108	EA			38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	535.16	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	43.99	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	97.51	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0109	EA			38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	581.94	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	47.48	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	105.68	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0110	EA			38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	606.84	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.97	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	110.66	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0111	EA			38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	629.82	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.27	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	115.25	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0112	EA			38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	812.58	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.35	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	150.61	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0113	EA			38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	897.66	130.94
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.67	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	166.44	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0114	EA			50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	671.94	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.48	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	123.68	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0115	EA			50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	726.40	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.74	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	133.38	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0116	EA		50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....762.79 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 64.38 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 140.65 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 132.64 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 192.93 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 251.50	762.79	119.04
07 72 13 00-0117	EA		50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....836.38 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 70.54 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 154.18 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 155.03 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 232.55 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 287.67	836.38	130.94
07 72 13 00-0118	EA		51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....896.57 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 75.37 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 165.03 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 26.61 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 123.08 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 126.14	896.57	142.85
07 72 13 00-0119	EA		51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....977.84 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 82.31 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 180.09 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 213.60 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 322.13 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 380.69	977.84	154.75
07 72 13 00-0120	EA		62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....762.79 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 64.38 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 140.65 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 21.19 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 78.03 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 143.49	762.79	119.04
07 72 13 00-0121	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....815.32 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 68.44 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 149.97 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 161.92 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 246.33 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 299.73	815.32	130.94
07 72 13 00-0122	EA		62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....892.75 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 74.99 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 164.27 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 210.16 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 294.56 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 344.52	892.75	142.85
07 72 13 00-0123	EA		62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....921.47 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 77.86 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 170.01 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 31.52 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 115.93 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 202.06	921.47	142.85
07 72 13 00-0124	EA		62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....1,006.56 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 85.18 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 185.84 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 265.28 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 351.41 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 461.66	1,006.56	154.75
07 72 13 00-0125			14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0126	EA		26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....470.05 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 37.48 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 84.49 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 37.90 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 74.07 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 93.02	470.05	95.23
07 72 13 00-0127	EA		26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....500.69 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 40.55 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 90.62 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 46.51 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 94.74 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 111.97	500.69	95.23
07 72 13 00-0128	EA		26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....581.94 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 47.48 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 105.68 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 56.85 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 117.14 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 129.20	581.94	107.14
07 72 13 00-0129	EA		26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....650.88 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 54.38 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 119.46 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 75.79 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 153.31 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 165.37	650.88	107.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0130 EA 26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	708.33	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.12	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	130.95	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0131 EA 26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	881.52	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.25	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	164.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0132 EA 38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	554.31	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	45.91	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	101.34	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0133 EA 38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	614.50	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	50.74	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	112.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0134 EA 38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	648.96	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	119.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0135 EA 38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	656.62	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	54.95	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	120.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0136 EA 38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	847.05	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.80	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	157.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0137 EA 38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	935.96	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	174.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0138 EA 50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	694.92	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	58.78	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	128.27	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0139 EA 50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	699.74	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	58.07	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	128.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0140 EA 50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	791.52	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.25	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	146.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0141 EA 50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	870.85	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	73.99	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0142 EA 51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	931.05	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.82	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	171.93	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0143 EA 51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,019.96	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	188.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0144	EA		62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	791.52 67.25 146.40 21.19 78.03 143.49	119.04
07 72 13 00-0145	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	849.78 71.88 156.86 161.92 246.33 299.73	130.94
07 72 13 00-0146	EA		62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	925.30 78.25 170.78 210.16 294.56 344.52	142.85
07 72 13 00-0147	EA		62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	959.77 81.69 177.67 31.52 115.93 202.06	142.85
07 72 13 00-0148	EA		62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,048.69 89.39 194.26 265.28 351.41 461.66	154.75
07 72 13 00-0149			Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs ^(07 72 13 00-0001) Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150			6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs ^(07 72 13 00-0149)		
07 72 13 00-0151	EA		14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	417.86 32.26 74.05	95.23
07 72 13 00-0152	EA		23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	518.81 42.36 94.24	95.23
07 72 13 00-0153	EA		32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	598.75 49.16 109.04	107.14
07 72 13 00-0154	EA		41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	679.36 57.22 125.16	107.14
07 72 13 00-0155	EA		50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	750.05 63.10 138.11	119.04
07 72 13 00-0156			12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs ^(07 72 13 00-0149)		
07 72 13 00-0157	EA		14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	565.68 47.05 103.61	95.23
07 72 13 00-0158	EA		23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	702.68 60.75 131.01	95.23
07 72 13 00-0159	EA		32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	730.35 62.32 135.36	107.14
07 72 13 00-0160	EA		41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	781.85 67.47 145.66	107.14
07 72 13 00-0161	EA		50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	877.78 75.87 163.65	119.04



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0162	EA 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		1,586.05 145.51 304.12	130.94
07 72 13 00-0163	18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)			
07 72 13 00-0164	EA 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		808.53 71.33 152.18	95.23
07 72 13 00-0165	EA 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		948.62 85.34 180.20	95.23
07 72 13 00-0166	EA 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		1,138.79 103.17 217.05	107.14
07 72 13 00-0167	Wood, Prefabricated Roof Curbs (07 72 13) Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.			
07 72 13 00-0168	Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0167)			
07 72 13 00-0169	2 x 6 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)			
07 72 13 00-0170	EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		329.99 23.48 56.48 37.90 74.07 93.02	95.23
07 72 13 00-0171	EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		364.13 25.70 62.11 56.85 117.14 129.20	107.14
07 72 13 00-0172	EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		408.91 30.18 71.07 15.76 100.17 110.50	107.14
07 72 13 00-0173	EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		403.75 29.66 70.04 89.58 165.37 189.49	107.14
07 72 13 00-0174	EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		415.80 30.87 72.45 16.02 98.70 121.10	107.14
07 72 13 00-0175	EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		468.91 34.99 81.88 20.67 111.97 146.42	119.04
07 72 13 00-0176	EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		412.36 30.52 71.76 93.02 168.81 187.76	107.14
07 72 13 00-0177	EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		484.41 36.54 84.98 132.64 192.93 251.50	119.04
07 72 13 00-0178	EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		532.02 38.92 92.12 26.61 123.08 166.14	142.85

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0179	EA		62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	453.40 33.44 78.78 21.19 78.03 143.49	119.04
07 72 13 00-0180	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	497.88 36.69 86.48 161.92 246.33 299.73	130.94
07 72 13 00-0181	EA		62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	566.47 42.36 99.01 31.52 115.93 202.06	142.85
07 72 13 00-0182			2 x 8 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0183	EA		26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	340.33 24.51 58.54 37.90 74.07 93.02	95.23
07 72 13 00-0184	EA		26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	376.18 26.91 64.52 56.85 117.14 129.20	107.14
07 72 13 00-0185	EA		26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	441.64 33.45 77.62 15.76 100.17 110.50	107.14
07 72 13 00-0186	EA		38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	424.42 31.73 74.17 89.58 165.37 189.49	107.14
07 72 13 00-0187	EA		38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	441.64 33.45 77.62 16.02 98.70 121.10	107.14
07 72 13 00-0188	EA		38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	494.75 37.57 87.05 20.67 111.97 146.42	119.04
07 72 13 00-0189	EA		50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	431.31 32.42 75.55 93.02 168.81 187.76	107.14
07 72 13 00-0190	EA		50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	508.53 38.95 89.80 132.64 192.93 251.50	119.04
07 72 13 00-0191	EA		51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	556.14 41.33 96.94 26.61 123.08 166.14	142.85
07 72 13 00-0192	EA		62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	472.35 35.33 82.57 21.19 78.03 143.49	119.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0193 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb.....	520.27	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	38.93	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	90.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0194 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb.....	590.59	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.77	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	103.83	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0168)</small>		
07 72 13 00-0196 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	347.22	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	25.20	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	59.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0197 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	388.24	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	28.11	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	66.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0198 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	445.09	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	33.80	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	78.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0199 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	436.48	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	32.94	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	76.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0200 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	457.15	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	35.00	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	80.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0201 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	511.97	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.29	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	90.49	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0202 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	443.37	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	33.62	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	77.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0203 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	524.03	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	92.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0204 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	571.64	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.88	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	100.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0205 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb	484.41	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.54	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	84.98	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0206 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb.....	534.05	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	93.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0207	EA		62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	607.82 46.50 107.28 31.52 115.93 202.06	142.85
07 72 13 00-0208			2 x 12 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0168)</small>		
07 72 13 00-0209	EA		26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	355.83 26.06 61.64 37.90 74.07 93.02	95.23
07 72 13 00-0210	EA		26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	395.13 28.80 68.31 56.85 117.14 129.20	107.14
07 72 13 00-0211	EA		26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	460.59 35.35 81.41 15.76 100.17 110.50	107.14
07 72 13 00-0212	EA		38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	474.37 36.72 84.16 16.02 98.70 121.10	107.14
07 72 13 00-0213	EA		38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	530.92 41.19 94.28 20.67 111.97 146.42	119.04
07 72 13 00-0214	EA		50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	458.87 35.17 81.06 93.02 168.81 187.76	107.14
07 72 13 00-0215	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	541.26 42.22 96.35 132.64 192.93 251.50	119.04
07 72 13 00-0216	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	592.31 44.95 104.18 26.61 123.08 166.14	142.85
07 72 13 00-0217	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	547.83 41.69 96.47 161.92 246.33 299.73	130.94
07 72 13 00-0218			Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0167)</small>		
07 72 13 00-0219			2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0220	EA		26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	343.77 24.85 59.23 37.90 74.07 93.02	95.23
07 72 13 00-0221	EA		26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	376.18 26.91 64.52 56.85 117.14 129.20	107.14
07 72 13 00-0222	EA		26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	431.31 32.42 75.55 15.76 100.17 110.50	107.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0223 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	419.25	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	31.21	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	73.14	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0224 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	434.75	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	32.76	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	76.24	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0225 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	489.58	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.05	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	86.01	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0226 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	427.86	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	32.07	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	74.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0227 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	503.36	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.43	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	88.77	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0228 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	550.97	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	40.81	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	95.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0229 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	474.08	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	35.50	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	82.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0230 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb.....	516.82	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.59	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	90.27	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0231 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	590.59	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	44.77	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.83	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0232 2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0233 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	355.83	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.06	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0234 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	389.97	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	67.28	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0235 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	451.98	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0236 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	439.92	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.27	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0237 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	462.31	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	35.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0238 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	520.59	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	40.16	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.21	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0239 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	451.98	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0240 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	532.64	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.36	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0241 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	583.70	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	44.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	102.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0242 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	496.47	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.74	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.39	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0243 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	542.66	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.17	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	95.44	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0244 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	619.87	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	47.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	109.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0246 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	366.17	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	63.71	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0247 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	403.75	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	29.66	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0248 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	472.65	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.55	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	83.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0249 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	455.42	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.83	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	80.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0250 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	482.99	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.59	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.89	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0251 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	542.98	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.39	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	96.69	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0252 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	467.48	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	82.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0253 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	551.59	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	43.26	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	98.41	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0254 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	604.37	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.15	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	106.59	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0255 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	513.70	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.47	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	90.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0256 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	561.61	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	43.07	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	99.23	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0257 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	642.27	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.94	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.17	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0258 2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0259 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	386.84	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	29.16	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	67.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0260 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	414.08	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.70	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	72.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0261 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	488.15	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	38.10	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	86.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0262 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	500.21	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	89.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0263 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	608.44	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.94	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	109.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0264 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	517.44	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	41.03	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	92.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0265	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	611.88	119.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.28	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	110.47	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0266	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	673.27	142.85
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.04	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	120.37	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0267	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	625.35	130.94
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.44	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	111.98	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	

07 72 23 Relief Vents (07 72)

07 72 23 00-0001 Wind Driven Turbine Ventilators (07 72 23)

Note: Excludes curb or flange base.

07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0003	EA		6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	146.31	39.19
			<i>For Curb Or Flange Base, Add</i>	176.54	
07 72 23 00-0004	EA		9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	174.19	43.39
			<i>For Curb Or Flange Base, Add</i>	194.94	
07 72 23 00-0005	EA		12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	190.62	51.79
			<i>For Curb Or Flange Base, Add</i>	220.42	
07 72 23 00-0006	EA		15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	344.93	57.39
			<i>For Curb Or Flange Base, Add</i>	329.84	
07 72 23 00-0007	EA		18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	467.89	64.39
			<i>For Curb Or Flange Base, Add</i>	359.14	
07 72 23 00-0008	EA		21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	560.44	69.98
			<i>For Curb Or Flange Base, Add</i>	389.28	
07 72 23 00-0009	EA		24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	710.87	78.38
			<i>For Curb Or Flange Base, Add</i>	470.56	
07 72 23 00-0010	EA		36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	1,162.53	104.98
			<i>For Curb Or Flange Base, Add</i>	750.24	

07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0012	EA		6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	147.17	39.19
			<i>For Curb Or Flange Base, Add</i>	186.29	
07 72 23 00-0013	EA		9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	181.48	43.39
			<i>For Curb Or Flange Base, Add</i>	205.87	
07 72 23 00-0014	EA		12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	204.73	51.79
			<i>For Curb Or Flange Base, Add</i>	231.46	
07 72 23 00-0015	EA		15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	349.51	57.39
			<i>For Curb Or Flange Base, Add</i>	370.57	
07 72 23 00-0016	EA		18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	446.89	64.39
			<i>For Curb Or Flange Base, Add</i>	398.26	
07 72 23 00-0017	EA		21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	560.26	69.98
			<i>For Curb Or Flange Base, Add</i>	446.22	
07 72 23 00-0018	EA		24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	750.07	78.38
			<i>For Curb Or Flange Base, Add</i>	534.62	
07 72 23 00-0019	EA		36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	1,112.32	104.98
			<i>For Curb Or Flange Base, Add</i>	793.74	

07 72 23 00-0020 Stationary Siphon Ventilators (07 72 23)

Note: Excludes curb or flange base.

07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators (07 72 23 00-0020)

07 72 23 00-0022	EA		6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	126.48	39.19
			<i>For Curb Or Flange Base, Add</i>	176.54	
07 72 23 00-0023	EA		9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	162.85	43.39
			<i>For Curb Or Flange Base, Add</i>	194.94	
07 72 23 00-0024	EA		12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	181.32	51.79
			<i>For Curb Or Flange Base, Add</i>	220.42	
07 72 23 00-0025	EA		15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	294.04	57.39
			<i>For Curb Or Flange Base, Add</i>	329.84	
07 72 23 00-0026	EA		18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	339.11	64.39
			<i>For Curb Or Flange Base, Add</i>	359.14	
07 72 23 00-0027	EA		21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	469.43	69.98
			<i>For Curb Or Flange Base, Add</i>	389.28	
07 72 23 00-0028	EA		24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	605.39	78.38
			<i>For Curb Or Flange Base, Add</i>	470.56	
07 72 23 00-0029	EA		36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator	873.17	104.98
			<i>For Curb Or Flange Base, Add</i>	750.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0030 Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0031 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	142.10 186.29	39.19
07 72 23 00-0032 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	184.50 205.87	43.39
07 72 23 00-0033 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	207.27 231.46	51.79
07 72 23 00-0034 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	325.66 370.57	57.39
07 72 23 00-0035 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	406.38 398.26	64.39
07 72 23 00-0036 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	494.41 446.22	69.98
07 72 23 00-0037 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	699.45 534.62	78.38
07 72 23 00-0038 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator..... <i>For Curb Or Flange Base, Add</i>	1,047.61 793.74	104.98
07 72 23 00-0039 Spun Aluminum, Stationary Mushroom Gravity Ventilators (07 72 23)		
Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040 EA 8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	302.15 137.51 224.22	62.98
07 72 23 00-0041 EA 10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	367.48 150.45 245.51	69.98
07 72 23 00-0042 EA 12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	418.64 205.45 309.81	83.99
07 72 23 00-0043 EA 16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	504.36 234.57 357.46	92.38
07 72 23 00-0044 EA 24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	1,267.78 294.43 472.00	125.98
07 72 23 00-0045 EA 30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	1,543.25 347.81 562.68	145.57
07 72 23 00-0046 EA 36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	2,084.57 347.81 590.51	167.96
07 72 23 00-0047 EA 42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	2,897.68 363.99 614.37	181.97
07 72 23 00-0048 EA 48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator..... <i>For Backdraft Damper, Add</i> <i>For Curb Base, Add</i>	4,129.80 404.43 688.38	195.96
07 72 23 00-0049 Galvanized Steel, Stationary Gooseneck Ventilators (07 72 23)		
Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050 EA 8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	506.90	69.98
07 72 23 00-0051 EA 12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	602.01	92.38
07 72 23 00-0052 EA 16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	861.70	125.98
07 72 23 00-0053 EA 24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	1,301.27	145.57
07 72 26 Ridge Vents (07 72)		
07 72 26 00-0001 Aluminum Ridge Vents (07 72 26)		
07 72 26 00-0002 LF Aluminum Ridge Vent Strips.....	13.47	4.06
07 72 26 00-0003 EA Aluminum Ridge Univent Connectors.....	60.89	25.23
07 72 26 00-0004 EA Aluminum Ridge Univent End Cap.....	58.20	25.23
07 72 26 00-0005 Galvanized Ridge Vents (07 72 26)		
07 72 26 00-0006 LF Galvanized Sheet Metal Ridge Vent Strips.....	14.44	4.34
07 72 29 Rafter Vent (07 72)		
07 72 29 00-0001 Rafter Vent (07 72 29)		
Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002 EA 22" x 4" Rafter Vent.....	10.67	
07 72 29 00-0003 EA 14" x 4" Rafter Vent.....	9.81	
07 72 33 Roof Hatches (07 72)		
Note: Includes curb with integral insulation, lockable hatch and gaskets.		
07 72 33 00-0001 Galvanized Steel Cover And Curb (07 72 33)		
07 72 33 00-0002 EA 2'-6" x 3'-0" Galvanized Steel Roof Hatch (Bilco S-20).....	1,250.57	170.43

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 33 00-0003	EA		2'-6" x 4'-6" Galvanized Steel Roof Hatch (Bilco NB-20).....	1,812.02	189.37
07 72 33 00-0004	EA		2'-6" x 8'-0" Galvanized Steel Roof Hatch (Bilco L-20).....	3,170.75	258.26
07 72 33 00-0005	EA		3'-0" x 3'-0" Galvanized Steel Roof Hatch (Bilco E-20).....	1,781.82	189.37
07 72 33 00-0006	EA		4'-0" x 4'-0" Galvanized Steel Roof Hatch.....	2,009.44	210.44
07 72 33 00-0007	EA		3'-0" x 8'-0" Galvanized Steel Roof Hatch.....	3,275.57	287.02
07 72 33 00-0008			Aluminum Cover And Curb (07 72 33)		
07 72 33 00-0009	EA		2'-6" x 3'-0" Aluminum Roof Hatch (Bilco S-50).....	1,151.18	170.43
07 72 33 00-0010	EA		2'-6" x 4'-6" Aluminum Roof Hatch (Bilco NB-50).....	1,479.58	189.37
07 72 33 00-0011	EA		2'-6" x 8'-0" Aluminum Roof Hatch (Bilco L-50).....	2,644.75	258.26
07 72 33 00-0012	EA		3'-0" x 3'-0" Aluminum Roof Hatch (Bilco E-50).....	1,442.72	189.37
07 72 33 00-0013	EA		4'-0" x 4'-0" Aluminum Roof Hatch (Bilco F-50).....	2,510.31	210.44
07 72 33 00-0014	EA		3'-0" x 8'-0" Aluminum Roof Hatch.....	2,783.34	287.02
07 72 33 00-0015	EA		3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight (Bilco GS-50).....	1,603.98	189.37
07 72 33 00-0016			Steel, Plain, Primed (07 72 33)		
07 72 33 00-0017	EA		2'-6" x 3'-0" Plain Steel Roof Hatch Primed (Bilco S-20).....	1,201.88	170.43
07 72 33 00-0018	EA		2'-6" x 4'-6" Plain Steel Roof Hatch Primed (Bilco NB-20).....	1,609.77	189.37
07 72 33 00-0019	EA		2'-6" x 8'-0" Plain Steel Roof Hatch Primed (Bilco L-20).....	2,204.85	258.26
07 72 33 00-0020	EA		3'-0" x 3'-0" Plain Steel Roof Hatch Primed (Bilco E-20).....	1,494.30	189.37
07 72 33 00-0021	EA		4'-0" x 4'-0" Plain Steel Roof Hatch Primed.....	1,823.95	210.44
07 72 33 00-0022	EA		3'-0" x 8'-0" Plain Steel Roof Hatch Primed.....	2,477.95	287.02
07 72 33 00-0023			Stainless Steel (07 72 33)		
07 72 33 00-0024	EA		2'-6" x 3'-0" Stainless Steel Roof Hatch (Bilco S-90).....	2,489.88	170.43
07 72 33 00-0025	EA		2'-6" x 4'-6" Stainless Steel Roof Hatch (Bilco NB-90).....	4,698.46	189.37
07 72 33 00-0026	EA		2'-6" x 8'-0" Stainless Steel Roof Hatch (Bilco L-90).....	7,052.61	258.26
07 72 33 00-0027	EA		3'-0" x 3'-0" Stainless Steel Roof Hatch (Bilco E-90).....	3,782.28	189.37
07 72 33 00-0028	EA		4'-0" x 4'-0" Stainless Steel Roof Hatch.....	7,908.24	210.44
07 72 33 00-0029	EA		3'-0" x 8'-0" Stainless Steel Roof Hatch.....	8,879.56	287.02
07 72 33 00-0030			Removal And Reinstallation Of Roof Hatch (07 72 33)		
			Note: Includes storage, cleaning and supply materials.		
07 72 33 00-0031	EA		Removal And Reinstallation Of Roof Hatch (All Types).....	524.23	
07 72 33 00-0032			Aluminum Cover And Galvanized Steel Curb (07 72 33)		
07 72 33 00-0033	EA		Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof (Bilco S-40).....	1,117.88	189.37
07 72 33 00-0034	EA		Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof (Bilco NB-40).....	1,446.28	210.44
07 72 33 00-0035	EA		Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof (Bilco L-40).....	2,558.19	286.90
07 72 33 00-0036	EA		Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof (Bilco E-40).....	1,416.08	195.29
07 72 33 00-0037	EA		Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof (Bilco F-40).....	2,437.06	216.36
07 72 33 00-0038			Roof Hatch Accessories (07 72 33)		
07 72 33 00-0039	EA		Roof Hatch Ladderup Safety Post (Bilco LU-1).....	769.35	88.76
07 72 33 00-0040			Roof Hatch Safety Railing (07 72 33)		
			Note: Included mounting bracket to attach to roof hatch		
07 72 33 00-0041	EA		24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x24).....	1,751.03	
07 72 33 00-0042	EA		24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x36).....	1,819.06	
07 72 33 00-0043	EA		30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x30).....	1,861.94	
07 72 33 00-0044	EA		30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x36).....	2,021.65	
07 72 33 00-0045	EA		36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-36x36).....	2,206.51	
07 72 33 00-0046	EA		48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-48x48).....	2,796.54	
07 72 36			Smoke Vents (07 72)		
07 72 36 00-0001			Fire Vent (07 72 36)		
07 72 36 00-0002			Galvanized Steel Covers And Curb (07 72 36 00-0001)		
07 72 36 00-0003	EA		4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848).....	3,130.40	157.89
07 72 36 00-0004	EA		4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872).....	3,608.72	217.07
07 72 36 00-0005	EA		4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890).....	4,111.31	236.83
07 72 36 00-0006	EA		4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896).....	4,194.00	248.67
07 72 36 00-0007	EA		5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060).....	4,851.52	217.07
07 72 36 00-0008	EA		5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072).....	5,159.35	236.83
07 72 36 00-0009	EA		5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084).....	5,448.61	256.59
07 72 36 00-0010	EA		5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096).....	6,201.61	276.36
07 72 36 00-0011	EA		5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120).....	7,687.33	296.01
07 72 36 00-0012	EA		5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666).....	5,161.09	256.59
07 72 36 00-0013	EA		5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114).....	10,814.66	315.78
07 72 36 00-0014	EA		6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272).....	5,956.49	335.54



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 36 00-0015 Aluminum Covers And Galvanized Steel Curb <small>(07 72 36 00-0001)</small>						
	07 72 36 00-0016	EA		4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4848A)	2,394.18	157.89
	07 72 36 00-0017	EA		4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4872A)	2,755.97	217.07
	07 72 36 00-0018	EA		4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4890A)	3,098.53	236.83
	07 72 36 00-0019	EA		4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4896A)	3,209.51	248.67
	07 72 36 00-0020	EA		5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6060A)	3,108.89	217.07
	07 72 36 00-0021	EA		5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6072A)	3,957.52	236.83
	07 72 36 00-0022	EA		5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6084A)	4,233.47	256.59
	07 72 36 00-0023	EA		5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6096A)	4,129.87	276.36
	07 72 36 00-0024	EA		5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-60120A)	5,770.91	296.01
	07 72 36 00-0025	EA		5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6666A)	4,000.41	256.59
	07 72 36 00-0026	EA		5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-66144A)	7,545.13	315.78
	07 72 36 00-0027	EA		6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-7272A)	3,952.28	335.54
07 72 36 00-0028 Aluminum Covers And Curb <small>(07 72 36 00-0001)</small>						
	07 72 36 00-0029	EA		4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848B)	2,607.26	157.89
	07 72 36 00-0030	EA		4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872B)	3,108.89	217.07
	07 72 36 00-0031	EA		4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890B)	3,411.49	236.83
	07 72 36 00-0032	EA		4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896B)	3,609.04	248.67
	07 72 36 00-0033	EA		5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060B)	3,268.70	217.07
	07 72 36 00-0034	EA		5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072B)	4,123.99	236.83
	07 72 36 00-0035	EA		5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084B)	4,379.96	256.59
	07 72 36 00-0036	EA		5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096B)	4,529.40	276.36
	07 72 36 00-0037	EA		5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120B)	5,484.58	296.01
	07 72 36 00-0038	EA		5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666B)	4,186.85	256.59
	07 72 36 00-0039	EA		5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114B)	8,230.99	315.78
	07 72 36 00-0040	EA		6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272B)	4,351.82	335.54
07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb <small>(07 72 36)</small>						
	07 72 36 00-0042	EA		4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4848B).....	2,580.63	157.42
	07 72 36 00-0043	EA		4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4872B).....	3,275.35	217.07
	07 72 36 00-0044	EA		4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4896B).....	3,469.20	248.67
	07 72 36 00-0045	EA		5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6060B).....	3,708.20	217.07
	07 72 36 00-0046	EA		5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6096B).....	3,930.12	276.36
07 72 46 Roof Walkways <small>(07 72)</small>						
07 72 46 00-0001 Recycled Rubber Walkway Pads <small>(07 72 46)</small>						
	07 72 46 00-0002	SF		3/8" Thick, Button Surface, Recycled Rubber Walkway Pad	10.52	2.64
				<i>For Diamond Surface, Add</i>	0.88	
	07 72 46 00-0003	SF		1/2" Thick, Button Surface, Recycled Rubber Walkway Pad	11.72	3.16
				<i>For Diamond Surface, Add</i>	1.03	
	07 72 46 00-0004	SF		3/4" Thick, Button Surface, Recycled Rubber Walkway Pad	12.94	3.16
				<i>For Diamond Surface, Add</i>	1.15	
07 72 53 Snow Guards <small>(07 72)</small>						
07 72 53 00-0001 Snow Guards For Shingle And Tile Roofs <small>(07 72 53)</small>						
	07 72 53 00-0002	EA		6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs.....	20.37	2.69
	07 72 53 00-0003	EA		6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs	22.25	2.69
	07 72 53 00-0004	EA		6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs.....	21.01	2.69
	07 72 53 00-0005	EA		6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs.....	12.30	2.69
07 72 53 00-0006 Snow Guards For Metal Roofs <small>(07 72 53)</small>						
	Note: Aluminum construction.					
	07 72 53 00-0007	EA		Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	24.68	5.01
	07 72 53 00-0008	EA		Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	27.27	5.01
	07 72 53 00-0009	EA		Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	39.50	5.01
	07 72 53 00-0010	EA		Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	38.95	5.01
	07 72 53 00-0011	EA		Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	36.95	5.84
	07 72 53 00-0012	EA		Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	40.20	5.84
	07 72 53 00-0013	EA		Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	49.76	5.84
	07 72 53 00-0014	EA		Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	21.57	4.38
				<i>For Mechanically Fastened, Add</i>	8.76	
	07 72 53 00-0015	EA		Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	24.26	4.38
				<i>For Mechanically Fastened, Add</i>	8.76	
	07 72 53 00-0016	EA		Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM).....	33.38	4.38
				<i>For Mechanically Fastened, Add</i>	8.76	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15) Note: Can be used for metal, rubber, PVC, TPO or glass roofing. For Mechanically Fastened, Add	13.98 11.68	4.38
07 72 53 00-0018 Snow Breaker For Roofs (07 72 53)		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.24	5.84
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	16.34	5.84
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	15.88	5.84
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	15.34	5.84
07 72 53 00-0023 Ice Breaker For Vents (07 72 53)		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened	127.13	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened	145.77	
07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs (07 72 53)		
07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps (07 72 53 00-0026) Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	63.78	17.52
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	74.85	17.52
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	83.69	17.52
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	102.71	17.52
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000)	106.86	21.02
07 72 53 00-0033 Tubing For Snow Guard Clamps (07 72 53 00-0026)		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®)	13.48	4.20
Note: Includes end caps, collars and couplings.		
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®)	25.23	4.20
Note: Includes end caps, collars and couplings.		
07 72 56 Snow/Ice Melt Cable (07 72)		
07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters (07 72 56)		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters	14.28	1.37
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters	15.31	1.37
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters	264.82	102.77
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters	200.59	75.37
07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters	10.01	4.11
For >5, Deduct	-0.82	
07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters	9.35	4.11
For >5, Deduct	-0.75	
07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters	58.47	10.28
07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow	907.78	82.22
07 72 56 00-0010 EA Automatic Gutter Ice Melting Control	1,240.58	102.77
07 72 63 Waste Containment Assemblies (07 72)		
07 72 63 00-0001 Rooftop Oil And Grease Containment System (07 72 63)		
07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) (07 72 63 00-0001)		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E)	2,570.58	215.04
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E)	2,865.40	215.04
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E)	3,503.16	223.64
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E)	3,486.31	223.64
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E)	4,538.58	241.92
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E)	3,556.93	241.92
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E)	3,969.40	286.64
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E)	5,827.55	358.36
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E)	7,209.43	358.36
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E)	9,105.31	358.36



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0013				Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0014	EA			48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100)	3,147.68	215.04
07 72 63 00-0015	EA			60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101)	3,531.09	215.04
07 72 63 00-0016	EA			60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106)	4,350.00	223.64
07 72 63 00-0017	EA			72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102)	4,425.85	223.64
07 72 63 00-0018	EA			72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103)	6,295.44	241.92
07 72 63 00-0019	EA			72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111)	6,897.91	241.92
07 72 63 00-0020	EA			90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105)	6,429.84	286.64
07 72 63 00-0021	EA			108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112)	7,251.56	358.36
07 72 63 00-0022	EA			120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107)	9,050.54	358.36
07 72 63 00-0023	EA			144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113)	11,515.19	358.36
07 72 63 00-0024				Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63)</small>		
				Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025				Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0026				Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0025)</small>		
07 72 63 00-0027	SET			48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E)	210.36	
07 72 63 00-0028	SET			60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E)	294.64	
07 72 63 00-0029	SET			60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E)	421.01	
07 72 63 00-0030	SET			72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E)	389.64	
07 72 63 00-0031	SET			72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E)	726.69	
07 72 63 00-0032	SET			72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E)	735.11	
07 72 63 00-0033	SET			90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E)	568.92	
07 72 63 00-0034	SET			108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E)	737.45	
07 72 63 00-0035	SET			120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E)	1,078.71	
07 72 63 00-0036	SET			144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E)	1,419.96	
07 72 63 00-0037				Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0038				Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0039	SET			48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC)	437.14	
07 72 63 00-0040	SET			60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC)	580.40	
07 72 63 00-0041	SET			60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC)	841.61	
07 72 63 00-0042	SET			72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC)	784.94	
07 72 63 00-0043	SET			72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC)	1,505.38	
07 72 63 00-0044	SET			72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC)	1,513.80	
07 72 63 00-0045	SET			90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC)	1,124.32	
07 72 63 00-0046	SET			108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC)	1,516.14	
07 72 63 00-0047	SET			120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC)	2,219.72	
07 72 63 00-0048	SET			144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC)	2,952.80	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 72 63 00-0049	Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0037)		
07 72 63 00-0050	SET 48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C).....	542.48	
07 72 63 00-0051	SET 60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C).....	673.09	
07 72 63 00-0052	SET 60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C).....	984.85	
07 72 63 00-0053	SET 72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C).....	932.41	
07 72 63 00-0054	SET 72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C).....	1,812.93	
07 72 63 00-0055	SET 72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C).....	1,804.51	
07 72 63 00-0056	SET 90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C).....	1,318.13	
07 72 63 00-0057	SET 108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C).....	1,823.69	
07 72 63 00-0058	SET 120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C).....	2,556.77	
07 72 63 00-0059	SET 144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C).....	3,555.27	
07 73	Roof Protection Board (07 70)		
07 73 00 00-0001	Roof Protection Board (07 73) Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.		
07 73 00 00-0002	Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)		
07 73 00 00-0003	SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	3.50	0.54
	<i>For No Adhesive, Deduct</i>	-0.76	
07 73 00 00-0004	SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	3.96	0.59
	<i>For No Adhesive, Deduct</i>	-0.78	
07 73 00 00-0005	SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....	4.17	0.64
	<i>For No Adhesive, Deduct</i>	-0.80	
07 73 00 00-0006	SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	3.55	0.54
	<i>For No Adhesive, Deduct</i>	-0.76	
07 73 00 00-0007	SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	4.03	0.59
	<i>For No Adhesive, Deduct</i>	-0.78	
07 73 00 00-0008	SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime).....	4.24	0.64
	<i>For No Adhesive, Deduct</i>	-0.80	
07 73 00 00-0009	Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)		
07 73 00 00-0010	SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	3.42	0.54
07 73 00 00-0011	SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	3.88	0.59
07 73 00 00-0012	SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	4.12	0.64
07 73 00 00-0013	SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	3.47	0.54
07 73 00 00-0014	SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	3.95	0.59
07 73 00 00-0015	SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....	4.19	0.64
07 73 00 00-0016	Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001) Note: Mechanically fastened to wood or steel.		
07 73 00 00-0017	SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.24	0.54
	<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0018 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.69	0.59
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.50	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0019 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.91	0.64
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.43	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0020 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.29	0.54
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0021 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.76	0.59
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.50	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0022 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.98	0.64
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.43	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	

07 76 Roof Pavers (07 70)

07 76 16 Roof Decking Pavers (07 76)

07 76 16 00-0001 Roof Pavers (07 76 16)

Note: For walkway application over roofing system.

07 76 16 00-0002 SF Up To 100 SF, 2" Concrete Roof Paver	13.30	6.86
<i>For 1-1/2" Thickness, Deduct</i>	-1.33	
<i>For 2-1/2" Thickness, Add</i>	1.55	
<i>For 3" Thickness, Add</i>	3.09	
07 76 16 00-0003 SF >100 To 200 SF, 2" Concrete Roof Paver	12.02	5.16
<i>For 1-1/2" Thickness, Deduct</i>	-1.20	
<i>For 2-1/2" Thickness, Add</i>	1.41	
<i>For 3" Thickness, Add</i>	2.82	
07 76 16 00-0004 SF >200 To 400 SF, 2" Concrete Roof Paver	11.26	4.12
<i>For 1-1/2" Thickness, Deduct</i>	-1.13	
<i>For 2-1/2" Thickness, Add</i>	1.32	
<i>For 3" Thickness, Add</i>	2.64	
07 76 16 00-0005 SF >400 To 1,000 SF, 2" Concrete Roof Paver	10.78	3.59
<i>For 1-1/2" Thickness, Deduct</i>	-1.08	
<i>For 2-1/2" Thickness, Add</i>	1.26	
<i>For 3" Thickness, Add</i>	2.52	
07 76 16 00-0006 SF >1,000 SF, 2" Concrete Roof Paver	10.17	3.27
<i>For 1-1/2" Thickness, Deduct</i>	-1.02	
<i>For 2-1/2" Thickness, Add</i>	1.19	
<i>For 3" Thickness, Add</i>	2.38	

07 76 16 00-0007 Roof Paver Pedestal (07 76 16)

07 76 16 00-0008 EA 2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator)	21.41	1.07
07 76 16 00-0009 EA 3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator)	22.48	1.07
07 76 16 00-0010 EA 4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)	23.56	1.07
07 76 16 00-0011 EA Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator).....	11.83	1.07
07 76 16 00-0012 EA Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator).....	10.77	1.07

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 76	Roof Pavers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 76 16 00-0013	EA		5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal) Note: Stackable.	11.02	1.07
07 76 16 00-0014	EA		1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal Note: Used with High Tab and Elevator pedestals.	6.18	1.07
07 76 16 00-0015	EA		Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator) Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.	8.36	1.07

07 76 19 Composite Insulation Concrete Protection Board (07 76)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0001 Composite Insulation Concrete Protection Board (07 76 19)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002	SF		2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF <i>For 20 Year Warranty, Deduct</i> <i>For 15 Year Warranty, Deduct</i> <i>For 10 Year Warranty, Deduct</i> <i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	5.08 -0.29 -0.58 -0.79 0.10	
07 76 19 00-0003	SF		3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF <i>For 20 Year Warranty, Deduct</i> <i>For 15 Year Warranty, Deduct</i> <i>For 10 Year Warranty, Deduct</i> <i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	6.60 -0.41 -0.83 -1.13 0.10	
07 76 19 00-0004	SF		2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF <i>For 20 Year Warranty, Deduct</i> <i>For 15 Year Warranty, Deduct</i> <i>For 10 Year Warranty, Deduct</i> <i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	7.75 -0.48 -0.96 -1.30 0.10	
07 76 19 00-0005	SF		3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF <i>For 20 Year Warranty, Deduct</i> <i>For 15 Year Warranty, Deduct</i> <i>For 10 Year Warranty, Deduct</i> <i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	9.35 -0.60 -1.21 -1.64 0.10	

07 80 Fire and Smoke Protection (07)

07 81 Applied Fireproofing (07 80)

Note: Includes bonding agents as required.

07 81 16 Cementitious Fireproofing (07 81)

07 81 16 00-0001 Monokote Fireproofing (07 81 16)

07 81 16 00-0002	SF		Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness.....	1.99	0.72
07 81 16 00-0003	SF		Monokote Fireproofing For Structural Steel, Per Inch Of Thickness.....	2.80	1.07

07 81 16 00-0004 Gunite Fireproofing (07 81 16)

07 81 16 00-0005	SF		1" Thick, Non Reinforced, Gunite Fireproofing.....	3.15	0.73
07 81 16 00-0006	SF		1" Thick, Reinforced, Gunite Fireproofing.....	4.45	0.73

07 81 23 Intumescent Fireproofing (07 81)

07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) (07 81 23)

07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0003	SF		1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) <i>For >10,000, Deduct</i>	14.22 -1.36	
07 81 23 00-0004	SF		1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) <i>For >10,000, Deduct</i>	22.77 -2.21	

07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0006	SF		1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	9.30 -0.86	
07 81 23 00-0007	SF		1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	20.43 -1.97	
07 81 23 00-0008	SF		2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	46.03 -4.52	
07 81 23 00-0009	SF		2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	63.31 -6.25	
07 81 23 00-0010	SF		3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	80.59 -7.97	
07 81 23 00-0011	SF		3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	97.90 -9.70	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0012	Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <small>(07 81 23 00-0001)</small>			
	Note: Excludes primer.			
07 81 23 00-0013	SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....	18.62		
	<i>For >10,000, Deduct</i>	-1.79		
07 81 23 00-0014	SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	34.47		
	<i>For >10,000, Deduct</i>	-3.37		
07 81 23 00-0015	SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....	54.63		
	<i>For >10,000, Deduct</i>	-5.38		
07 81 23 00-0016	SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	76.23		
	<i>For >10,000, Deduct</i>	-7.54		
07 81 23 00-0017	SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....	96.38		
	<i>For >10,000, Deduct</i>	-9.55		
07 81 23 00-0018	Intumescent Thin Film Fireproofing (Albi Clad FP) <small>(07 81 23)</small>			
07 81 23 00-0019	Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <small>(07 81 23 00-0018)</small>			
	Note: Excludes primer.			
07 81 23 00-0020	SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	9.06		
	<i>For >10,000, Deduct</i>	-0.86		
07 81 23 00-0021	SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	20.51		
	<i>For >10,000, Deduct</i>	-2.00		
07 81 23 00-0022	SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	46.88		
	<i>For >10,000, Deduct</i>	-4.63		
07 81 23 00-0023	SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	64.66		
	<i>For >10,000, Deduct</i>	-6.40		
07 81 23 00-0024	SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	82.46		
	<i>For >10,000, Deduct</i>	-8.18		
07 81 33	Mineral-Fiber Fireproofing <small>(07 81)</small>			
07 81 33 00-0001	Cellulose Fireproofing <small>(07 81 33)</small>			
07 81 33 00-0002	SF Cellulose Fireproofing, Per Inch Of Thickness.....	2.48		0.73
07 84	Firestopping <small>(07 80)</small>			
07 84 13	Penetration Firestopping <small>(07 84)</small>			
07 84 13 16	Penetration Firestopping Devices <small>(07 84 13)</small>			
07 84 13 16-0001	Firestopping Systems For Cable Penetrations <small>(07 84 13 16)</small>			
07 84 13 16-0002	Intumescent Firestop Cable Sleeve For New Installations <small>(07 84 13 16-0001)</small>			
	Note: Includes putty, escutcheon plates, gaskets and bushings.			
07 84 13 16-0003	EA 1" Diameter Intumescent Firestop Sleeve (STI FS100)	60.74		
07 84 13 16-0004	EA 2" Diameter Intumescent Firestop Sleeve (STI FS201)	80.30		
07 84 13 16-0005	EA 4" Diameter Intumescent Firestop Sleeve (STI FS401)	127.88		
07 84 13 16-0006	Intumescent Firestop Cable Pathway For New Or Existing Cable Installations <small>(07 84 13 16-0001)</small>			
	Note: Includes pathway, putty and wall/floor mounting plates.			
07 84 13 16-0007	EA 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22)	107.34		
07 84 13 16-0008	EA 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS)	185.88		
07 84 13 16-0009	EA 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44)	337.39		
07 84 13 16-0010	3M Intumescent Firestopping Multi-Trade Pass Through Device <small>(07 84 13 16)</small>			
07 84 13 16-0011	EA 2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	242.07		
07 84 13 16-0012	EA 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	224.79		
07 84 13 16-0013	EA 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	231.35		
07 84 13 16-0014	Intumescent Firestopping Pipe Collar <small>(07 84 13 16)</small>			
07 84 13 16-0015	EA 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	43.20		14.09
07 84 13 16-0016	EA 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	50.44		14.09
07 84 13 16-0017	EA 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	58.17		15.50
07 84 13 16-0018	EA 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	87.26		17.61
07 84 13 16-0019	EA 8" Intumescent Firestop Pipe Collar (Hilti CP644 8")	391.55		21.13
07 84 13 16-0020	EA 10" Intumescent Firestop Pipe Collar (Hilti CP644 10")	503.56		23.24

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) <small>(07 84 13 16)</small> Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.		
07 84 13 16-0022 EA 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9).....	154.66	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0023 EA 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9).....	163.13	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0024 EA 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)	310.95	
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.		
07 84 13 16-0025 EA 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3).....	200.36	
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.		
07 84 13 16-0026 Intumescent Firestopping Wrap Strips <small>(07 84 13 16)</small>		
07 84 13 16-0027 LF 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series).....	5.90	
07 84 13 19 Penetration Firestopping Caulk <small>(07 84 13)</small>		
07 84 13 19-0001 Intumescent Firestopping For Sealing Pipe Penetrations <small>(07 84 13 19)</small> Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.		
07 84 13 19-0002 EA 1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	23.56	
For Intumescent Sealant For Plastic Pipe, Add	0.06	
07 84 13 19-0003 EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.92	
For Intumescent Sealant For Plastic Pipe, Add	0.33	
07 84 13 19-0004 EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.71	
For Intumescent Sealant For Plastic Pipe, Add	0.24	
07 84 13 19-0005 EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.37	
For Intumescent Sealant For Plastic Pipe, Add	0.11	
07 84 13 19-0006 EA 2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	33.38	
For Intumescent Sealant For Plastic Pipe, Add	0.70	
07 84 13 19-0007 EA 2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	33.16	
For Intumescent Sealant For Plastic Pipe, Add	0.62	
07 84 13 19-0008 EA 2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	32.82	
For Intumescent Sealant For Plastic Pipe, Add	0.48	
07 84 13 19-0009 EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	32.29	
For Intumescent Sealant For Plastic Pipe, Add	0.27	
07 84 13 19-0010 EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	31.83	
For Intumescent Sealant For Plastic Pipe, Add	0.08	
07 84 13 19-0011 EA 2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	40.41	
For Intumescent Sealant For Plastic Pipe, Add	1.18	
07 84 13 19-0012 EA 2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	40.20	
For Intumescent Sealant For Plastic Pipe, Add	1.10	
07 84 13 19-0013 EA 2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	39.85	
For Intumescent Sealant For Plastic Pipe, Add	0.96	
07 84 13 19-0014 EA 2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	39.32	
For Intumescent Sealant For Plastic Pipe, Add	0.74	
07 84 13 19-0015 EA 2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	38.87	
For Intumescent Sealant For Plastic Pipe, Add	0.56	
07 84 13 19-0016 EA 2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	37.78	
For Intumescent Sealant For Plastic Pipe, Add	0.13	
07 84 13 19-0017 EA 3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	54.77	
For Intumescent Sealant For Plastic Pipe, Add	3.18	
07 84 13 19-0018 EA 3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	51.04	
For Intumescent Sealant For Plastic Pipe, Add	1.68	
07 84 13 19-0019 EA 3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	50.69	
For Intumescent Sealant For Plastic Pipe, Add	1.54	
07 84 13 19-0020 EA 3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	50.15	
For Intumescent Sealant For Plastic Pipe, Add	1.33	
07 84 13 19-0021 EA 3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	49.70	
For Intumescent Sealant For Plastic Pipe, Add	1.15	
07 84 13 19-0022 EA 3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	48.62	
For Intumescent Sealant For Plastic Pipe, Add	0.72	
07 84 13 19-0023 EA 3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	47.22	
For Intumescent Sealant For Plastic Pipe, Add	0.16	
07 84 13 19-0024 EA 4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	73.20	
For Intumescent Sealant For Plastic Pipe, Add	5.86	
07 84 13 19-0025 EA 4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	72.82	
For Intumescent Sealant For Plastic Pipe, Add	5.71	
07 84 13 19-0026 EA 4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	72.20	
For Intumescent Sealant For Plastic Pipe, Add	5.46	
07 84 13 19-0027 EA 4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	71.23	
For Intumescent Sealant For Plastic Pipe, Add	5.08	
07 84 13 19-0028 EA 4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	70.41	
For Intumescent Sealant For Plastic Pipe, Add	4.75	
07 84 13 19-0029 EA 4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	64.05	
For Intumescent Sealant For Plastic Pipe, Add	2.20	
07 84 13 19-0030 EA 4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	62.66	
For Intumescent Sealant For Plastic Pipe, Add	1.65	
07 84 13 19-0031 EA 4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	60.54	
For Intumescent Sealant For Plastic Pipe, Add	0.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0032 EA 6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	115.78 13.53	
07 84 13 19-0033 EA 6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	115.40 13.38	
07 84 13 19-0034 EA 6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	114.78 13.13	
07 84 13 19-0035 EA 6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	113.82 12.74	
07 84 13 19-0036 EA 6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	113.00 12.42	
07 84 13 19-0037 EA 6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	111.05 11.64	
07 84 13 19-0038 EA 6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	108.54 10.63	
07 84 13 19-0039 EA 6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	104.72 9.10	
07 84 13 19-0040 EA 6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	90.35 3.36	
07 84 13 19-0041 EA 8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	152.92 21.36	
07 84 13 19-0042 EA 8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	149.10 19.84	
07 84 13 19-0043 EA 8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	141.43 16.77	
07 84 13 19-0044 EA 8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	110.18 4.27	
07 84 13 19-0045 EA 10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	193.49 30.57	
07 84 13 19-0046 EA 10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	170.77 21.48	
07 84 13 19-0047 EA 10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	130.66 5.44	

07 84 13 19-0048 Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations (07 84 13 19)

Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.

07 84 13 19-0049 EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	28.38	
07 84 13 19-0050 EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	28.30	
07 84 13 19-0051 EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	28.19	
07 84 13 19-0052 EA 2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.21	
07 84 13 19-0053 EA 2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.13	
07 84 13 19-0054 EA 2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.02	
07 84 13 19-0055 EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	31.85	
07 84 13 19-0056 EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	31.70	
07 84 13 19-0057 EA 2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	38.47	
07 84 13 19-0058 EA 2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	38.40	
07 84 13 19-0059 EA 2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	38.29	
07 84 13 19-0060 EA 2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	38.12	
07 84 13 19-0061 EA 2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.98	
07 84 13 19-0062 EA 2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.60	
07 84 13 19-0063 EA 3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.33	
07 84 13 19-0064 EA 3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.26	
07 84 13 19-0065 EA 3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.15	
07 84 13 19-0066 EA 3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.98	
07 84 13 19-0067 EA 3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.83	
07 84 13 19-0068 EA 3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.46	
07 84 13 19-0069 EA 3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	46.95	
07 84 13 19-0070 EA 4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.34	
07 84 13 19-0071 EA 4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.26	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0072	EA	4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.15	
07 84 13 19-0073	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.97	
07 84 13 19-0074	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.79	
07 84 13 19-0075	EA	4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.42	
07 84 13 19-0076	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	59.95	
07 84 13 19-0077	EA	4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	59.21	
07 84 13 19-0078	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.41	
07 84 13 19-0079	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.33	
07 84 13 19-0080	EA	6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.22	
07 84 13 19-0081	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.05	
07 84 13 19-0082	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.91	
07 84 13 19-0083	EA	6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.53	
07 84 13 19-0084	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.02	
07 84 13 19-0085	EA	6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	86.32	
07 84 13 19-0086	EA	6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	84.81	
07 84 13 19-0087	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	109.70	
07 84 13 19-0088	EA	8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	108.99	
07 84 13 19-0089	EA	8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	107.48	
07 84 13 19-0090	EA	8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	103.20	
07 84 13 19-0091	EA	10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	131.65	
07 84 13 19-0092	EA	10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	127.36	
07 84 13 19-0093	EA	10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	121.70	

07 84 16 Annular Space Firestopping Protection (07 84)

07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)

07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)

07 84 16 00-0003	EA	1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	34.90	
07 84 16 00-0004	EA	2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	48.74	
07 84 16 00-0005	EA	3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	51.08	
07 84 16 00-0006	EA	4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	53.42	
07 84 16 00-0007	EA	5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	55.76	
07 84 16 00-0008	EA	6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	69.61	

07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)

07 84 16 00-0010	EA	Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	14.48	
07 84 16 00-0011	EA	Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	14.97	
07 84 16 00-0012	EA	Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	14.07	
07 84 16 00-0013	EA	Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	15.00	
07 84 16 00-0014	EA	Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	14.64	
07 84 16 00-0015	EA	Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	14.13	

07 84 16 00-0016 Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)

07 84 16 00-0017	EA	2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	33.14	
07 84 16 00-0018	EA	2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	35.50	
07 84 16 00-0019	EA	3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	38.41	

07 84 16 00-0020 Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)

Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.

07 84 16 00-0021	EA	16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	310.23	
07 84 16 00-0022	EA	36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	431.10	
07 84 16 00-0023	EA	36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	578.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 16 00-0024 Endothermic Mat Wrap Fire Barrier <small>(07 84 16)</small> <small>Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.</small>		
07 84 16 00-0025 SF 0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	47.98	
07 84 16 00-0026 Firestopping Caulk For Filling Opening <small>(07 84 16)</small>		
07 84 16 00-0027 GAL Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	173.12	
07 84 16 00-0028 Firestopping Mortar For Filling Opening <small>(07 84 16)</small>		
07 84 16 00-0029 CF Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	152.19	
07 84 23 Silicone Firestopping Foams <small>(07 84)</small>		
07 84 23 00-0001 Silicone RTV Foam Seal For Blank Openings <small>(07 84 23)</small>		
07 84 23 00-0002 EA 2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	44.12	
07 84 23 00-0003 EA 4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	104.55	
07 84 23 00-0004 EA 6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	183.33	
07 84 23 00-0005 EA 8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	277.92	
07 84 23 00-0006 EA 10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	394.24	
07 84 23 00-0007 EA 12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	526.49	
07 84 43 Joint Firestopping <small>(07 84)</small>		
07 84 43 00-0001 Intumescent Firestopping Sealant For Joints (3M CP 25WB+) <small>(07 84 43)</small>		
07 84 43 00-0002 CLF 1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	397.47	105.37
For Up To 6 CLF, Add	21.91	
For >30 CLF, Deduct	-23.94	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	12.20	
07 84 43 00-0003 CLF 1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	438.18	105.37
For Up To 4 CLF, Add	24.96	
For >20 CLF, Deduct	-28.01	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	18.31	
07 84 43 00-0004 CLF 1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	490.57	108.88
For Up To 3 CLF, Add	28.60	
For >15 CLF, Deduct	-32.67	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	24.41	
07 84 43 00-0005 CLF 3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	510.91	108.88
For Up To 2.5 CLF, Add	30.12	
For >13 CLF, Deduct	-34.70	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	27.47	
07 84 43 00-0006 CLF 3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	571.95	108.88
For Up To 2 CLF, Add	34.70	
For >10 CLF, Deduct	-40.80	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	36.62	
07 84 43 00-0007 CLF 3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	632.98	108.88
For Up To 1.5 CLF, Add	39.28	
For >8 CLF, Deduct	-46.91	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	45.78	
07 84 43 00-0008 CLF 3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	705.73	113.56
For Up To 1.3 CLF, Add	44.44	
For >7 CLF, Deduct	-53.60	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	54.93	
07 84 43 00-0009 CLF 1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	665.04	113.56
For Up To 1.4 CLF, Add	41.39	
For >7.5 CLF, Deduct	-49.53	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	48.83	
07 84 43 00-0010 CLF 1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	758.13	117.07
For Up To 1.15 CLF, Add	48.08	
For >6 CLF, Deduct	-58.25	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	61.04	
07 84 43 00-0011 CLF 1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	839.51	117.07
For Up To 1 CLF, Add	54.18	
For >5 CLF, Deduct	-66.39	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	73.24	
07 84 43 00-0012 CLF 1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	932.60	120.58
For Up To 0.8 CLF, Add	60.87	
For >4.5 CLF, Deduct	-75.11	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	85.45	
07 84 43 00-0013 CLF 1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,025.67	125.27
For Up To 0.75 CLF, Add	67.56	
For >4 CLF, Deduct	-83.84	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	97.65	
07 84 43 00-0014 CLF 3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,118.76	128.78
For Up To 0.65 CLF, Add	74.25	
For >3.5 CLF, Deduct	-92.56	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	109.86	
07 84 43 00-0015 CLF 3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	1,398.02	140.49
For Up To 0.5 CLF, Add	94.31	
For >2.5 CLF, Deduct	-118.73	
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	146.48	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0016	CLF		1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,770.38 121.07 -153.62 195.31	155.71
07 84 43 00-0017			Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series) ^{(07 84}		
07 84 43 00-0018	CLF		⁴³⁾ 1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	408.80 22.76 -25.07	105.37
07 84 43 00-0019	CLF		1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	455.15 26.23 -29.71	105.37
07 84 43 00-0020	CLF		1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	513.20 30.29 -34.93	108.88
07 84 43 00-0021	CLF		3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	536.37 32.03 -37.25	108.88
07 84 43 00-0022	CLF		3/8" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	605.89 37.25 -44.20	108.88
07 84 43 00-0023	CLF		3/8" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	675.41 42.46 -51.15	108.88
07 84 43 00-0024	CLF		3/8" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	756.64 48.26 -58.69	113.56
07 84 43 00-0025	CLF		1/2" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	710.30 44.78 -54.05	113.56
07 84 43 00-0026	CLF		1/2" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	814.70 52.32 -63.91	117.07
07 84 43 00-0027	CLF		1/2" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	907.39 59.27 -73.18	117.07
07 84 43 00-0028	CLF		1/2" x 7/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	1,011.80 66.81 -83.03	120.58
07 84 43 00-0029	CLF		1/2" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	1,116.19 74.35 -92.89	125.27
07 84 43 00-0030	CLF		3/4" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	1,220.60 81.89 -102.74	128.78
07 84 43 00-0031	CLF		3/4" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	1,533.80 104.50 -132.31	140.49
07 84 43 00-0032	CLF		1" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i>	1,951.41 134.65 -171.73	155.71
07 84 43 00-0033			Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) ^{(07 84}		
07 84 43 00-0034	CLF		⁴³⁾ 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	364.06 19.40 -20.60	105.37
07 84 43 00-0035	CLF		1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	388.03 21.20 -23.00	105.37
07 84 43 00-0036	CLF		1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	423.70 23.58 -25.98	108.88
07 84 43 00-0037	CLF		3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	435.69 24.48 -27.18	108.88
07 84 43 00-0038	CLF		3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	471.65 27.18 -30.77	108.88
07 84 43 00-0039	CLF		3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	507.60 29.87 -34.37	108.88
07 84 43 00-0040	CLF		3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	555.27 33.16 -38.55	113.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0041 CLF 1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	531.30	113.56
<i>For Up To 1.4 CLF, Add</i>	31.36	
<i>For >7.5 CLF, Deduct</i>	-36.15	
07 84 43 00-0042 CLF 1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	590.96	117.07
<i>For Up To 1.15 CLF, Add</i>	35.54	
<i>For >6 CLF, Deduct</i>	-41.53	
07 84 43 00-0043 CLF 1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	638.90	117.07
<i>For Up To 1 CLF, Add</i>	39.14	
<i>For >5 CLF, Deduct</i>	-46.33	
07 84 43 00-0044 CLF 1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	698.56	120.58
<i>For Up To 0.8 CLF, Add</i>	43.32	
<i>For >4.5 CLF, Deduct</i>	-51.71	
07 84 43 00-0045 CLF 1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	758.20	125.27
<i>For Up To 0.75 CLF, Add</i>	47.50	
<i>For >4 CLF, Deduct</i>	-57.09	
07 84 43 00-0046 CLF 3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	817.86	128.78
<i>For Up To 0.65 CLF, Add</i>	51.68	
<i>For >3.5 CLF, Deduct</i>	-62.47	
07 84 43 00-0047 CLF 3/4" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	996.81	140.49
<i>For Up To 0.5 CLF, Add</i>	64.22	
<i>For >2.5 CLF, Deduct</i>	-78.61	
07 84 43 00-0048 CLF 1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	1,235.43	155.71
<i>For Up To 0.4 CLF, Add</i>	80.95	
<i>For >2 CLF, Deduct</i>	-100.13	

07 84 56 Fire Safing (07 84)

07 84 56 13 Fibrous Fire Safing (07 84 56)

07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)

Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
07 84 56 13-0002 SF 1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A)	10.61	
<i>For Work In Restricted Working Space, Add</i>	1.64	
07 84 56 13-0003 SF 1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A)	16.15	
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
<i>For Work In Restricted Working Space, Add</i>	1.64	
07 84 56 13-0004 SF 2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A)	17.48	
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
<i>For Work In Restricted Working Space, Add</i>	1.64	

07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)

07 84 56 13-0006 SF 1/2" Thermal Ceramics FireMaster Blanket Wrap	19.21	11.68
<i>For Work In Restricted Working Space, Add</i>	4.69	
<i>For >500 To 5,000, Deduct</i>	-1.60	
<i>For >5,000, Deduct</i>	-2.88	
07 84 56 13-0007 SF 1" Thermal Ceramics FireMaster Blanket Wrap	22.17	11.68
<i>For Work In Restricted Working Space, Add</i>	4.69	
<i>For >500 To 5,000, Deduct</i>	-2.28	
<i>For >5,000, Deduct</i>	-3.98	
07 84 56 13-0008 SF 1-1/2" Thermal Ceramics FireMaster Blanket Wrap	25.41	11.68
<i>For Work In Restricted Working Space, Add</i>	4.69	
<i>For >500 To 5,000, Deduct</i>	-3.03	
<i>For >5,000, Deduct</i>	-5.18	
07 84 56 13-0009 SF 2" Thermal Ceramics FireMaster Blanket Wrap	28.66	11.68
<i>For Work In Restricted Working Space, Add</i>	4.69	
<i>For >500 To 5,000, Deduct</i>	-3.78	
<i>For >5,000, Deduct</i>	-6.38	

07 90 Joint Protection (07)

07 91 Preformed Joint Seals (07 90)

07 91 23 Backer Rods (07 91)

07 91 23 00-0001 Backer Rods (07 91 23)

07 91 23 00-0002 LF 1/4" Polyethylene Or Polyurethane Backer Rod	1.74	0.54
07 91 23 00-0003 LF 3/8" Polyethylene Or Polyurethane Backer Rod	1.86	0.54
07 91 23 00-0004 LF 1/2" Polyethylene Or Polyurethane Backer Rod	2.01	0.54
07 91 23 00-0005 LF 5/8" Polyethylene Or Polyurethane Backer Rod	2.16	0.54
07 91 23 00-0006 LF 3/4" Polyethylene Or Polyurethane Backer Rod	2.24	0.64
07 91 23 00-0007 LF 7/8" Polyethylene Or Polyurethane Backer Rod	2.37	0.64
07 91 23 00-0008 LF 1" Polyethylene Or Polyurethane Backer Rod	2.63	0.64
07 91 23 00-0009 LF 1-1/4" Polyethylene Or Polyurethane Backer Rod	2.92	0.75
07 91 23 00-0010 LF 1-1/2" Polyethylene Or Polyurethane Backer Rod	3.27	0.86

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Prefomed Joint Seals**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91	23 00-0011	LF	2" Polyethylene Or Polyurethane Backer Rod	3.90	0.96
07 91	23 00-0012	LF	3" Polyethylene Or Polyurethane Backer Rod	6.07	1.19
07 91 26	Joint Fillers (07 91)				
07 91 26 00-0001	Butyl Rubber Fillers (07 91 26)				
07 91 26 00-0002	LF	1/4" x 1/4"	Butyl Rubber Filler	2.42	0.64
			<i>For Custom Match Coloring, Add</i>	0.04	
07 91 26 00-0003	LF	1/2" x 1/2"	Butyl Rubber Filler	7.23	1.83
			<i>For Custom Match Coloring, Add</i>	0.15	
07 91 26 00-0004	LF	1/2" x 3/4"	Butyl Rubber Filler	8.69	1.94
			<i>For Custom Match Coloring, Add</i>	0.24	
07 91 26 00-0005	LF	3/4" x 3/4"	Butyl Rubber Filler	9.38	2.04
07 91 26 00-0006	LF	1" x 1"	Butyl Rubber Filler	12.39	3.77
07 91 26 00-0007	Closed Cell Neoprene (07 91 26)				
07 91 26 00-0008	CLF	1/8" x 3"	Neoprene Gasket Closed Cell, Adhesive.....	426.61	124.08
07 91 26 00-0009	CLF	1/8" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	675.80	179.24
07 91 26 00-0010	CLF	1/4" x 3"	Neoprene Gasket Closed Cell, Adhesive.....	544.44	153.65
07 91 26 00-0011	CLF	1/4" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	620.43	161.28
07 91 26 00-0012	CLF	1/2" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	947.31	248.16
07 91 26 00-0013	CLF	1/2" x 9"	Neoprene Gasket Closed Cell, Adhesive.....	1,077.63	268.79
07 91 26 00-0014	CLF	1/2" x 12"	Neoprene Gasket Closed Cell, Adhesive.....	953.94	195.47
07 91 26 00-0015	Closed Cell Polyvinyl Chloride (07 91 26)				
07 91 26 00-0016	CLF	1/8" x 3"	Polyethylene Joint Backing, Closed Cell.....	433.14	153.65
07 91 26 00-0017	CLF	1/8" x 6"	Polyethylene Joint Backing, Closed Cell.....	715.01	248.16
07 91 26 00-0018	CLF	1/4" x 3"	Polyethylene Joint Backing, Closed Cell.....	561.14	211.82
07 91 26 00-0019	CLF	1/4" x 6"	Polyethylene Joint Backing, Closed Cell.....	661.81	223.64
07 91 26 00-0020	CLF	1/2" x 6"	Polyethylene Joint Backing, Closed Cell.....	1,008.67	342.99
07 91 26 00-0021	CLF	1/2" x 9"	Polyethylene Joint Backing, Closed Cell.....	1,168.39	372.23
07 91 26 00-0022	CLF	1/2" x 12"	Polyethylene Joint Backing, Closed Cell.....	1,527.38	446.20
07 91 26 00-0023	Silicon RTV Foam Penetration Seal (07 91 26)				
07 91 26 00-0024	CLF	1/4" x 1/2"	Silicon RTV Foam Seal.....	151.91	24.63
07 91 26 00-0025	CLF	1/2" x 1/2"	Silicon RTV Foam Seal.....	303.81	49.13
07 91 26 00-0026	CLF	1/2" x 3/4"	Silicon RTV Foam Seal.....	452.94	73.01
07 91 26 00-0027	CLF	3/4" x 3/4"	Silicon RTV Foam Seal.....	642.65	98.38
07 91 26 00-0028	CLF	1/8" x 1"	Silicon RTV Foam Seal.....	151.91	24.63
07 91 26 00-0029	CLF	1/8" x 3"	Silicon RTV Foam Seal.....	452.51	72.80
07 91 26 00-0030	CLF	1/4" x 3"	Silicon RTV Foam Seal.....	784.01	109.34
07 91 26 00-0031	CLF	1/4" x 6"	Silicon RTV Foam Seal.....	1,566.09	217.94
07 91 26 00-0032	CLF	1/2" x 6"	Silicon RTV Foam Seal.....	2,984.06	393.42
07 91 26 00-0033	CLF	1/2" x 9"	Silicon RTV Foam Seal.....	4,555.17	614.58
07 91 26 00-0034	CLF	1/2" x 12"	Silicon RTV Foam Seal.....	6,636.41	983.37
07 91 26 00-0035	Seals O-Ring Type Cord "J-Seal" (07 91 26)				
07 91 26 00-0036	LF	1/4"	Seals O-Ring Cord, J-Seal	4.59	1.40
07 91 26 00-0037	LF	1/2"	Seals O-Ring Cord, J-Seal	4.86	1.40
07 91 26 00-0038	LF	3/4"	Seals O-Ring Cord, J-Seal	5.10	1.51
07 91 26 00-0039	LF	1"	Seals O-Ring Cord, J-Seal	5.37	1.62
07 91 26 00-0040	LF	1-1/4"	Seals O-Ring Cord, J-Seal	5.74	1.72
07 91 26 00-0041	LF	1-1/2"	Seals O-Ring Cord, J-Seal	6.00	1.72
07 91 26 00-0042	LF	1-3/4"	Seals O-Ring Cord, J-Seal	6.35	1.83
07 91 26 00-0043	LF	2"	Seals O-Ring Cord, J-Seal	6.55	1.83
07 91 33	Expansion Joint Seal Systems (07 91)				
07 91 33 00-0001	Expansion Joint Seal Systems (Wabo®) (07 91 33)				
07 91 33 00-0002	Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)				
	Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.				
07 91 33 00-0003	LF	1/2"	Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	80.18	7.43
07 91 33 00-0004	LF	3/4"	Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	106.48	7.78
07 91 33 00-0005	LF	1"	Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH).....	134.23	8.13
07 91 33 00-0006	LF	1-1/4"	Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	165.08	8.49
07 91 33 00-0007	LF	1-1/2"	Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	213.38	8.84
07 91 33 00-0008	LF	1-3/4"	Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	244.74	9.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0009 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH)	283.63	9.55
07 91 33 00-0010 Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
Note: Includes prefomed neoprene joint seal and lubricant adhesive.		
07 91 33 00-0011 LF 0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	42.29	7.43
07 91 33 00-0012 LF 0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	45.95	7.53
07 91 33 00-0013 LF 0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	55.03	7.65
07 91 33 00-0014 LF 0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	58.29	7.78
07 91 33 00-0015 LF 1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	62.14	7.89
07 91 33 00-0016 LF 1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	75.58	7.99
07 91 33 00-0017 LF 1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350)	92.63	8.13
07 91 33 00-0018 LF 1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400)	109.17	8.49
07 91 33 00-0019 LF 1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500)	123.33	8.84
07 91 33 00-0020 Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
Note: Includes prefomed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021 LF 0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100)	35.83	7.43
07 91 33 00-0022 LF 0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225)	45.90	7.78
07 91 33 00-0023 LF 1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250)	55.81	8.13
07 91 33 00-0024 LF 1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300)	58.84	8.32
07 91 33 00-0025 LF 1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400)	65.02	8.49
07 91 33 00-0026 LF 1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500)	92.09	8.84
07 91 33 00-0027 LF 1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600)	125.55	9.20
07 91 33 00-0028 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001)		
Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100)	29.29	2.94
07 91 33 00-0030 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150)	48.72	3.07
07 91 33 00-0031 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200)	73.04	3.19
07 91 33 00-0032 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250)	91.95	3.30
07 91 33 00-0033 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300)	120.81	3.42
07 91 33 00-0034 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350)	159.62	3.53
07 91 33 00-0035 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400)	195.63	3.66
07 91 33 00-0036 LF 2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500)	263.58	3.78
07 91 33 00-0037 LF 3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600)	307.62	3.89
07 91 33 00-0038 Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001)		
Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039 LF 0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100)	28.59	2.94
07 91 33 00-0040 LF 1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150)	37.55	3.07
07 91 33 00-0041 LF 1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200)	50.18	3.19
07 91 33 00-0042 LF 1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250)	67.86	3.30
07 91 33 00-0043 LF 2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300)	77.35	3.42

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Prefomed Joint Seals**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0044	LF		2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	107.09	3.53
07 91 33 00-0045	LF		3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	143.62	3.66
07 91 33 00-0046	LF		3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	155.02	3.78
07 92 Joint Sealants (07 90)					
07 92 13 Elastomeric Joint Sealants (07 92)					
07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)					
07 92 13 00-0002	CLF		1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	352.76	105.37
			<i>For Custom Match Coloring, Add</i>	8.80	
			<i>For Up To 6 CLF, Add</i>	18.55	
			<i>For >30 CLF, Deduct</i>	-19.47	
			<i>For 1 Part Mildew Resistant, Add</i>	12.83	
			<i>For High-Modulus Non-Acid Curing, Add</i>	7.33	
07 92 13 00-0003	CLF		1/4" x 3/8" Joint, Silicone Sealant And Caulking.....	371.09	105.37
			<i>For Custom Match Coloring, Add</i>	13.20	
			<i>For Up To 4 CLF, Add</i>	19.93	
			<i>For >20 CLF, Deduct</i>	-21.30	
			<i>For 1 Part Mildew Resistant, Add</i>	19.24	
			<i>For High-Modulus Non-Acid Curing, Add</i>	11.00	
07 92 13 00-0004	CLF		1/4" x 1/2" Joint, Silicone Sealant And Caulking.....	401.12	108.88
			<i>For Custom Match Coloring, Add</i>	17.59	
			<i>For Up To 3 CLF, Add</i>	21.89	
			<i>For >15 CLF, Deduct</i>	-23.72	
			<i>For 1 Part Mildew Resistant, Add</i>	25.66	
			<i>For High-Modulus Non-Acid Curing, Add</i>	14.66	
07 92 13 00-0005	CLF		3/8" x 3/8" Joint, Silicone Sealant And Caulking.....	410.28	108.88
			<i>For Custom Match Coloring, Add</i>	19.79	
			<i>For Up To 2.5 CLF, Add</i>	22.58	
			<i>For >13 CLF, Deduct</i>	-24.64	
			<i>For 1 Part Mildew Resistant, Add</i>	28.86	
			<i>For High-Modulus Non-Acid Curing, Add</i>	16.49	
07 92 13 00-0006	CLF		3/8" x 1/2" Joint, Silicone Sealant And Caulking.....	437.77	108.88
			<i>For Custom Match Coloring, Add</i>	26.39	
			<i>For Up To 2 CLF, Add</i>	24.64	
			<i>For >10 CLF, Deduct</i>	-27.39	
			<i>For 1 Part Mildew Resistant, Add</i>	38.49	
			<i>For High-Modulus Non-Acid Curing, Add</i>	21.99	
07 92 13 00-0007	CLF		3/8" x 5/8" Joint, Silicone Sealant And Caulking.....	465.26	108.88
			<i>For Custom Match Coloring, Add</i>	32.99	
			<i>For Up To 1.5 CLF, Add</i>	26.70	
			<i>For >8 CLF, Deduct</i>	-30.14	
			<i>For 1 Part Mildew Resistant, Add</i>	48.11	
			<i>For High-Modulus Non-Acid Curing, Add</i>	27.49	
07 92 13 00-0008	CLF		3/8" x 3/4" Joint, Silicone Sealant And Caulking.....	504.46	113.56
			<i>For Custom Match Coloring, Add</i>	39.59	
			<i>For Up To 1.3 CLF, Add</i>	29.35	
			<i>For >7 CLF, Deduct</i>	-33.47	
			<i>For 1 Part Mildew Resistant, Add</i>	57.73	
			<i>For High-Modulus Non-Acid Curing, Add</i>	32.99	
07 92 13 00-0009	CLF		1/2" x 1/2" Joint, Silicone Sealant And Caulking.....	486.14	113.56
			<i>For Custom Match Coloring, Add</i>	35.19	
			<i>For Up To 1.4 CLF, Add</i>	27.97	
			<i>For >7.5 CLF, Deduct</i>	-31.64	
			<i>For 1 Part Mildew Resistant, Add</i>	51.32	
			<i>For High-Modulus Non-Acid Curing, Add</i>	29.32	
07 92 13 00-0010	CLF		1/2" x 5/8" Joint, Silicone Sealant And Caulking.....	534.50	117.07
			<i>For Custom Match Coloring, Add</i>	43.98	
			<i>For Up To 1.15 CLF, Add</i>	31.31	
			<i>For >6 CLF, Deduct</i>	-35.89	
			<i>For 1 Part Mildew Resistant, Add</i>	64.14	
			<i>For High-Modulus Non-Acid Curing, Add</i>	36.65	
07 92 13 00-0011	CLF		1/2" x 3/4" Joint, Silicone Sealant And Caulking.....	571.15	117.07
			<i>For Custom Match Coloring, Add</i>	52.78	
			<i>For Up To 1 CLF, Add</i>	34.06	
			<i>For >5 CLF, Deduct</i>	-39.55	
			<i>For 1 Part Mildew Resistant, Add</i>	76.97	
			<i>For High-Modulus Non-Acid Curing, Add</i>	43.98	
07 92 13 00-0012	CLF		1/2" x 7/8" Joint, Silicone Sealant And Caulking.....	619.52	120.58
			<i>For Custom Match Coloring, Add</i>	61.58	
			<i>For Up To 0.8 CLF, Add</i>	37.39	
			<i>For >4.5 CLF, Deduct</i>	-43.81	
			<i>For 1 Part Mildew Resistant, Add</i>	89.80	
			<i>For High-Modulus Non-Acid Curing, Add</i>	51.32	
07 92 13 00-0013	CLF		1/2" x 1" Joint, Silicone Sealant And Caulking.....	667.87	125.27
			<i>For Custom Match Coloring, Add</i>	70.38	
			<i>For Up To 0.75 CLF, Add</i>	40.72	
			<i>For >4 CLF, Deduct</i>	-48.06	
			<i>For 1 Part Mildew Resistant, Add</i>	102.63	
			<i>For High-Modulus Non-Acid Curing, Add</i>	58.65	



Thermal And Moisture Protection		07
Joint Protection		07 90
Joint Sealants		07 92

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0014 CLF 3/4" x 3/4" Joint, Silicone Sealant And Caulking	716.23	128.78
For Custom Match Coloring, Add	79.17	
For Up To 0.65 CLF, Add	44.06	
For >3.5 CLF, Deduct	-52.31	
For 1 Part Mildew Resistant, Add	115.46	
For High-Modulus Non-Acid Curing, Add	65.98	
07 92 13 00-0015 CLF 3/4" x 1" Joint, Silicone Sealant And Caulking	861.32	140.49
For Custom Match Coloring, Add	105.56	
For Up To 0.5 CLF, Add	54.06	
For >2.5 CLF, Deduct	-65.06	
For 1 Part Mildew Resistant, Add	153.95	
For High-Modulus Non-Acid Curing, Add	87.97	
07 92 13 00-0016 CLF 1" x 1" Joint, Silicone Sealant And Caulking	1,054.77	155.71
For Custom Match Coloring, Add	140.75	
For Up To 0.4 CLF, Add	67.40	
For >2 CLF, Deduct	-82.06	
For 1 Part Mildew Resistant, Add	205.26	
For High-Modulus Non-Acid Curing, Add	117.29	
07 92 13 00-0017 Acrylic/Latex Sealant And Caulking (07 92 13)		
07 92 13 00-0018 CLF 1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking	328.97	105.37
For Up To 6 CLF, Add	16.77	
For >30 CLF, Deduct	-17.09	
07 92 13 00-0019 CLF 1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	335.40	105.37
For Up To 4 CLF, Add	17.25	
For >20 CLF, Deduct	-17.73	
07 92 13 00-0020 CLF 1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	353.53	108.88
For Up To 3 CLF, Add	18.32	
For >15 CLF, Deduct	-18.96	
07 92 13 00-0021 CLF 3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	356.74	108.88
For Up To 2.5 CLF, Add	18.56	
For >13 CLF, Deduct	-19.28	
07 92 13 00-0022 CLF 3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	366.39	108.88
For Up To 2 CLF, Add	19.28	
For >10 CLF, Deduct	-20.25	
07 92 13 00-0023 CLF 3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	376.03	108.88
For Up To 1.5 CLF, Add	20.01	
For >8 CLF, Deduct	-21.21	
07 92 13 00-0024 CLF 3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	397.39	113.56
For Up To 1.3 CLF, Add	21.32	
For >7 CLF, Deduct	-22.76	
07 92 13 00-0025 CLF 1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	390.96	113.56
For Up To 1.4 CLF, Add	20.83	
For >7.5 CLF, Deduct	-22.12	
07 92 13 00-0026 CLF 1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	415.53	117.07
For Up To 1.15 CLF, Add	22.38	
For >6 CLF, Deduct	-23.99	
07 92 13 00-0027 CLF 1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	428.39	117.07
For Up To 1 CLF, Add	23.35	
For >5 CLF, Deduct	-25.28	
07 92 13 00-0028 CLF 1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking	452.96	120.58
For Up To 0.8 CLF, Add	24.90	
For >4.5 CLF, Deduct	-27.15	
07 92 13 00-0029 CLF 1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking	477.52	125.27
For Up To 0.75 CLF, Add	26.45	
For >4 CLF, Deduct	-29.02	
07 92 13 00-0030 CLF 3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	502.08	128.78
For Up To 0.65 CLF, Add	28.00	
For >3.5 CLF, Deduct	-30.89	
07 92 13 00-0031 CLF 3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking	575.78	140.49
For Up To 0.5 CLF, Add	32.65	
For >2.5 CLF, Deduct	-36.50	
07 92 13 00-0032 CLF 1" x 1" Joint, Acrylic/Latex Sealant And Caulking	674.06	155.71
For Up To 0.4 CLF, Add	38.85	
For >2 CLF, Deduct	-43.99	
07 92 13 00-0033 Polyurethane Sealant And Caulking (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0034 CLF 1/4" x 1/4" Joint, Polyurethane Sealant And Caulking	344.22	105.37
For Up To 6 CLF, Add	17.91	
For >30 CLF, Deduct	-18.62	
07 92 13 00-0035 CLF 1/4" x 3/8" Joint, Polyurethane Sealant And Caulking	358.28	105.37
For Up To 4 CLF, Add	18.97	
For >20 CLF, Deduct	-20.02	
07 92 13 00-0036 CLF 1/4" x 1/2" Joint, Polyurethane Sealant And Caulking	384.03	108.88
For Up To 3 CLF, Add	20.61	
For >15 CLF, Deduct	-22.01	
07 92 13 00-0037 CLF 3/8" x 3/8" Joint, Polyurethane Sealant And Caulking	391.06	108.88
For Up To 2.5 CLF, Add	21.13	
For >13 CLF, Deduct	-22.72	
07 92 13 00-0038 CLF 3/8" x 1/2" Joint, Polyurethane Sealant And Caulking	412.15	108.88
For Up To 2 CLF, Add	22.72	
For >10 CLF, Deduct	-24.82	

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0039 CLF 3/8" x 5/8" Joint, Polyurethane Sealant And Caulking.....	433.23	108.88
For Up To 1.5 CLF, Add	24.30	
For >8 CLF, Deduct	-26.93	
07 92 13 00-0040 CLF 3/8" x 3/4" Joint, Polyurethane Sealant And Caulking.....	466.03	113.56
For Up To 1.3 CLF, Add	26.46	
For >7 CLF, Deduct	-29.63	
07 92 13 00-0041 CLF 1/2" x 1/2" Joint, Polyurethane Sealant And Caulking.....	451.97	113.56
For Up To 1.4 CLF, Add	25.41	
For >7.5 CLF, Deduct	-28.22	
07 92 13 00-0042 CLF 1/2" x 5/8" Joint, Polyurethane Sealant And Caulking.....	491.79	117.07
For Up To 1.15 CLF, Add	28.10	
For >6 CLF, Deduct	-31.62	
07 92 13 00-0043 CLF 1/2" x 3/4" Joint, Polyurethane Sealant And Caulking.....	519.90	117.07
For Up To 1 CLF, Add	30.21	
For >5 CLF, Deduct	-34.43	
07 92 13 00-0044 CLF 1/2" x 7/8" Joint, Polyurethane Sealant And Caulking.....	559.73	120.58
For Up To 0.8 CLF, Add	32.91	
For >4.5 CLF, Deduct	-37.83	
07 92 13 00-0045 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking.....	599.54	125.27
For Up To 0.75 CLF, Add	35.60	
For >4 CLF, Deduct	-41.22	
07 92 13 00-0046 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking.....	639.36	128.78
For Up To 0.65 CLF, Add	38.29	
For >3.5 CLF, Deduct	-44.62	
07 92 13 00-0047 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking.....	758.82	140.49
For Up To 0.5 CLF, Add	46.37	
For >2.5 CLF, Deduct	-54.81	
07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0049 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking	346.89	105.37
For Up To 6 CLF, Add	18.11	
For >30 CLF, Deduct	-18.88	
07 92 13 00-0050 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking	362.29	105.37
For Up To 4 CLF, Add	19.27	
For >20 CLF, Deduct	-20.42	
07 92 13 00-0051 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking	389.38	108.88
For Up To 3 CLF, Add	21.01	
For >15 CLF, Deduct	-22.55	
07 92 13 00-0052 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking	397.08	108.88
For Up To 2.5 CLF, Add	21.59	
For >13 CLF, Deduct	-23.32	
07 92 13 00-0053 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking	420.18	108.88
For Up To 2 CLF, Add	23.32	
For >10 CLF, Deduct	-25.63	
07 92 13 00-0054 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking	443.26	108.88
For Up To 1.5 CLF, Add	25.05	
For >8 CLF, Deduct	-27.94	
07 92 13 00-0055 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking	478.06	113.56
For Up To 1.3 CLF, Add	27.37	
For >7 CLF, Deduct	-30.83	
07 92 13 00-0056 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking	462.67	113.56
For Up To 1.4 CLF, Add	26.21	
For >7.5 CLF, Deduct	-29.29	
07 92 13 00-0057 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking	505.17	117.07
For Up To 1.15 CLF, Add	29.11	
For >6 CLF, Deduct	-32.96	
07 92 13 00-0058 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking	535.95	117.07
For Up To 1 CLF, Add	31.42	
For >5 CLF, Deduct	-36.03	
07 92 13 00-0059 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking	578.46	120.58
For Up To 0.8 CLF, Add	34.31	
For >4.5 CLF, Deduct	-39.70	
07 92 13 00-0060 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking	620.93	125.27
For Up To 0.75 CLF, Add	37.20	
For >4 CLF, Deduct	-43.36	
07 92 13 00-0061 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking	663.44	128.78
For Up To 0.65 CLF, Add	40.10	
For >3.5 CLF, Deduct	-47.03	
07 92 13 00-0062 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking	790.91	140.49
For Up To 0.5 CLF, Add	48.78	
For >2.5 CLF, Deduct	-58.02	
07 92 13 00-0063 Flexible Polyurethane Security Sealant And Caulking (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0064 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking	353.42	105.37
For Up To 6 CLF, Add	18.60	
For >30 CLF, Deduct	-19.54	
07 92 13 00-0065 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking	372.08	105.37
For Up To 4 CLF, Add	20.00	
For >20 CLF, Deduct	-21.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0066 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	402.43 21.99 -23.85	108.88
07 92 13 00-0067 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	411.76 22.69 -24.79	108.88
07 92 13 00-0068 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	439.74 24.79 -27.58	108.88
07 92 13 00-0069 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	467.73 26.88 -30.38	108.88
07 92 13 00-0070 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	507.42 29.57 -33.77	113.56
07 92 13 00-0071 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	488.76 28.17 -31.90	113.56
07 92 13 00-0072 CLF 1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	537.78 31.55 -36.22	117.07
07 92 13 00-0073 CLF 1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	575.10 34.35 -39.95	117.07
07 92 13 00-0074 CLF 1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	624.12 37.74 -44.27	120.58
07 92 13 00-0075 CLF 1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	673.13 41.12 -48.58	125.27
07 92 13 00-0076 CLF 3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	722.15 44.50 -52.90	128.78
07 92 13 00-0077 CLF 3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	869.20 54.65 -65.85	140.49

07 92 19 Acoustical Joint Sealants (07 92)

07 92 19 00-0001 Acoustical Sealant (07 92 19)

07 92 19 00-0002 CLF 1/4" x 1/4" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	357.07 9.83 18.88 -19.90 14.34 8.19	105.37
07 92 19 00-0003 CLF 1/4" x 3/8" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	372.63 13.56 20.04 -21.46 19.78 11.30	105.37
07 92 19 00-0004 CLF 1/4" x 1/2" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	393.50 15.77 21.32 -22.96 22.99 13.14	108.88
07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	418.96 21.88 23.23 -25.51 31.90 18.23	108.88
07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	445.42 28.23 25.21 -28.15 41.16 23.52	108.88
07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant <i>For Custom Match Coloring, Add</i> <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	505.24 39.77 29.41 -33.55 58.00 33.14	113.56

07 95 Expansion Control (07 90)

07 95 13 Expansion Joint Cover Assemblies (07 95)

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)

07 Thermal And Moisture Protection**07 90 Joint Protection****07 95 Expansion Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies (07 95 13 13)		
07 95 13 13-0002 With 1" Space (07 95 13 13-0001)		
07 95 13 13-0003 LF 1" Opening Floor Assembly Type, Aluminum Expansion Joint Cover	58.95	6.27
07 95 13 13-0004 LF 1" Opening Floor Assembly Type, Bronze Expansion Joint Cover	68.99	6.27
07 95 13 13-0005 LF 1" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover	76.79	6.27
07 95 13 13-0006 With 2" Space (07 95 13 13-0001)		
07 95 13 13-0007 LF 2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover	74.68	6.27
07 95 13 13-0008 LF 2" Opening Floor Assembly Type, Bronze Expansion Joint Cover	82.82	6.27
07 95 13 13-0009 LF 2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover	101.45	6.27
07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies (07 95 13 13)		
07 95 13 13-0011 With 1" Space (07 95 13 13-0010)		
07 95 13 13-0012 LF 1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover	43.22	6.27
07 95 13 13-0013 LF 1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	55.16	6.27
07 95 13 13-0014 LF 1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	64.47	6.27
07 95 13 13-0015 With 2" Space (07 95 13 13-0010)		
07 95 13 13-0016 LF 2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover	52.66	6.27
07 95 13 13-0017 LF 2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	62.07	6.27
07 95 13 13-0018 LF 2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	76.79	6.27
07 95 13 16 Exterior Expansion Joint Cover Assemblies (07 95 13)		
07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies (07 95 13 16)		
07 95 13 16-0002 Roof To Roof (07 95 13 16-0001)		
07 95 13 16-0003 LF 1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	68.77	4.18
07 95 13 16-0004 LF 2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	82.01	4.18
07 95 13 16-0005 LF 3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	91.13	4.18
07 95 13 16-0006 Roof To Wall (07 95 13 16-0001)		
07 95 13 16-0007 LF 1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint	52.79	4.18
07 95 13 16-0008 LF 2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint	68.99	4.18
07 95 13 16-0009 Flat Wall To Wall (07 95 13 16-0001)		
07 95 13 16-0010 LF 1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	40.10	4.18
07 95 13 16-0011 LF 2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	49.82	4.18
07 95 13 16-0012 LF 3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	61.56	4.18
07 95 13 16-0013 Corner To Flat Wall (07 95 13 16-0001)		
07 95 13 16-0014 LF 1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	38.45	4.18
07 95 13 16-0015 LF 2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	44.93	4.18
07 95 13 16-0016 LF 3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	63.15	4.18

END OF SECTION 07



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 Openings

08 01 Operation and Maintenance of Openings ⁽⁰⁸⁾

08 01 50 Operation and Maintenance of Windows ^(08 01)

08 01 52 Operation and Maintenance of Wood Windows ^(08 01 50)

08 01 52 61 Wood Window Repairs ^(08 01 52)

08 01 52 61-0001 Window Restoration And Replacement ^(08 01 52 61)

08 01 52 61-0002	EA	Removal And Replacement Of Sash Guides	12.67
08 01 52 61-0003	EA	Removal And Replacement Of Window Arms	34.60
08 01 52 61-0004	EA	Removal And Replacement Of Window Crank Operator	40.03
08 01 52 61-0005	EA	Removal And Replacement Of Brass Window Sash Pull	23.84
08 01 52 61-0006	EA	Removal And Replacement Of Brass Window Sash Lock	22.05
08 01 52 61-0007	EA	Removal And Replacement Of Window Balance, Removable Sash Window	27.67
		Note: Channel, spiral or coil balance.	
08 01 52 61-0008	EA	Removal And Replacement Of Window Balance, Sash Window, Wooden Stops And/Or Casing	86.22
		Note: Channel, spiral or coil balance.	
		<i>For Replacing Two Balances In One Window, Deduct</i>	-32.32

08 01 80 Maintenance of Glazing ^(08 01)

08 01 81 Maintenance of Glass Glazing ^(08 01 80)

08 01 81 00-0001 Glazing Compound Repair ^(08 01 81)

08 01 81 00-0002	LF	Removal And Replacement Of Up To 1/2" Wide Damaged, Broken Or Cracked Window Glazing	5.37
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08 05 Common Work Results for Openings ⁽⁰⁸⁾

08 05 13 Door Options and Modifications ^(08 05)

Note: Excludes removal and reinstallation of door.

08 05 13 00-0001 Door Vision Panels (Pemko LT-S1) ^(08 05 13)

Note: Factory primed or powder coated.

08 05 13 00-0002	EA	For Up To 1 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	117.68
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	58.84
08 05 13 00-0003	EA	For >1 To 2 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	148.96
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	74.48
08 05 13 00-0004	EA	For >2 To 4 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	172.80
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	86.40
08 05 13 00-0005	EA	For >4 To 6 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	220.46
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	110.23
08 05 13 00-0006	EA	For >6 To 8 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	286.01
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	143.01
08 05 13 00-0007	EA	For >8 To 10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	364.96
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	182.48
08 05 13 00-0008	EA	For >10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	387.30
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	193.65
08 05 13 00-0009	EA	For Up To 1 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	224.10
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	53.49
08 05 13 00-0010	EA	For >1 To 2 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	264.26
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	67.71
08 05 13 00-0011	EA	For >2 To 4 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	297.63
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	78.55
08 05 13 00-0012	EA	For >4 To 6 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	352.68
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	100.21
08 05 13 00-0013	EA	For >6 To 8 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	423.99
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	130.01
08 05 13 00-0014	EA	For >8 To 10 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	507.46
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	165.89
08 05 13 00-0015	EA	For >10 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	539.49
		<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	176.05

08 Openings**08 05 Common Work Results for Openings****08 05 13 Door Options and Modifications**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0016			Door Louvers, Inverted "Y" 50% Free Air (Pemko LV-IY) <small>(08 05 13)</small>		
			Note: Factory primed or powder coated.		
08 05 13 00-0017	EA		For Up To 1 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	112.68	
08 05 13 00-0018	EA		For >1 To 2 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	128.02	
08 05 13 00-0019	EA		For >2 To 4 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	174.03	
08 05 13 00-0020	EA		For >4 To 6 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	324.51	
08 05 13 00-0021	EA		For >6 To 8 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	401.35	
08 05 13 00-0022	EA		For >8 To 10 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	479.42	
08 05 13 00-0023	EA		For >10 To 14 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	625.66	
08 05 13 00-0024	EA		For >14 To 18 SF, Factory Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	736.52	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	88.38	
08 05 13 00-0025	EA		For Up To 1 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	200.53	
08 05 13 00-0026	EA		For >1 To 2 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	224.64	
08 05 13 00-0027	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	279.44	
08 05 13 00-0028	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	438.71	
08 05 13 00-0029	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	524.33	
08 05 13 00-0030	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	611.18	
08 05 13 00-0031	EA		For >10 To 14 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	766.20	
08 05 13 00-0032	EA		For >14 To 18 SF, Site Installed 20 Gauge Galvannealed Inverted "Y" Blades, 18 Gauge Galvannealed Frame Louver In Door, Add.....	882.92	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	88.38	
08 05 13 00-0033			Fire Rated Fusible Link Louvers (Pemko LV-FL) <small>(08 05 13)</small>		
			Note: Factory primed or powder coated.		
08 05 13 00-0034	EA		For Up To 1 SF, Factory Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	228.28	
08 05 13 00-0035	EA		For >1 To 2 SF, Factory Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	261.23	
08 05 13 00-0036	EA		For >2 To 4 SF, Factory Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	306.86	
08 05 13 00-0037	EA		For Up To 1 SF, Site Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	333.69	
08 05 13 00-0038	EA		For >1 To 2 SF, Site Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	378.35	
08 05 13 00-0039	EA		For >2 To 4 SF, Site Installed 16 Gauge Galvannealed Adjustable "Z" Blades, 18 Gauge Galvannealed Frame Fire Rated Fusible Link Louver In Door, Add.....	433.35	
08 05 13 00-0040			Door Hardware Preparation <small>(08 05 13)</small>		
08 05 13 00-0041	EA		Factory Prepare Wood Door (Rated Or Non-Rated) For Mortise Lockset Hardware	87.81	
08 05 13 00-0042	EA		Prepare Existing Wood Door (Rated) For Mortise Lockset Hardware	216.59	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0043	EA		Prepare Existing Wood Door (Non-Rated) For Mortise Lockset Hardware	99.51	
08 05 13 00-0044	EA		Prepare Existing Wood Door (Rated) For Cylindrical Lockset Hardware	175.62	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0045	EA		Prepare Existing Wood Door (Non-Rated) For Cylindrical Lockset Hardware	29.27	
08 05 13 00-0046	EA		Prepare Existing Wood Door (Rated) For Concealed Vertical Rod.....	322.00	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0047	EA		Prepare Existing Wood Door (Non-Rated) For Concealed Vertical Rod.....	204.88	
08 05 13 00-0048	EA		Prepare Existing Wood Door (Rated) For Electric Hardware	216.59	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0049	EA		Prepare Existing Door (Non-Rated) For Electric Hardware.....	99.51	
08 05 13 00-0050			Door Modifications <small>(08 05 13)</small>		
08 05 13 00-0051	EA		Factory Installed Sound Proofing (STC 28) In Metal Door	167.08	
08 05 13 00-0052	SF		For 16 Gauge Steel Metal Plate Bolted On Door	31.45	
			Note: Includes mounting hardware.		
08 05 13 00-0053	EA		Trim Bottom Of Existing Steel Door For Installation Of Carpet Or Tile.....	105.41	
			Note: Excludes removal and reinstallation of door.		
08 05 13 00-0054	EA		Trim Bottom Of Existing Wood Door For Installation Of Carpet Or Tile	53.06	
			Note: Excludes removal and reinstallation of door.		
08 05 13 00-0055	EA		Modify Metal Door Frame For Door Swing.....	1,247.16	
			Note: Includes removal of door; install blank hinge plates, new continuous hinge, blank strike plate, new strike plate and reinstallation of door.		
08 05 13 00-0056	EA		Removal And Reinstallation Of Door	99.55	
08 05 13 00-0057	EA		Removal And Reinstallation Of Metal Door Frame	195.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 05 13 00-0058	EA		Removal And Reinstallation Of Wood Door Frame.....	117.92	
08 05 13 00-0059	EA		Factory Trim Wood Door Edge For Custom Width.....	76.65	

08 30 Specialty Doors and Frames (08)

Note: Includes caulk, sealant and mounting anchors.

08 31 Access Doors and Panels (08 30)

See CSI section 07 72 33 00-0000 for roof hatches.

08 31 13 Access Doors and Frames (08 31)

08 31 13 00-0001 Stainless Steel Access Doors (08 31 13)

08 31 13 00-0002 Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0003	EA	12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch.....		396.92	68.45
08 31 13 00-0004	EA	12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....		458.82	72.92
08 31 13 00-0005	EA	18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....		532.12	77.13
08 31 13 00-0006	EA	24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....		610.61	81.04
08 31 13 00-0007	EA	24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch.....		623.98	81.46
08 31 13 00-0008	EA	24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch.....		806.05	83.99

08 31 13 00-0009 Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0010	EA	8" x 8" Stainless Steel Access Door With Cam Latch.....		176.14	52.49
08 31 13 00-0011	EA	12" x 12" Stainless Steel Access Door With Cam Latch.....		206.63	68.45
08 31 13 00-0012	EA	12" x 18" Stainless Steel Access Door With Cam Latch.....		282.62	72.92
08 31 13 00-0013	EA	18" x 18" Stainless Steel Access Door With Cam Latch.....		302.85	77.13
08 31 13 00-0014	EA	24" x 18" Stainless Steel Access Door With Cam Latch.....		347.58	81.04
08 31 13 00-0015	EA	24" x 24" Stainless Steel Access Door With Cam Latch.....		390.99	81.46

08 31 13 00-0016 Steel Access Doors (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0017 Insulated Fire Rated Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0018	EA	12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch.....		273.67	68.87
08 31 13 00-0019	EA	12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch.....		333.92	72.92
08 31 13 00-0020	EA	18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch.....		335.42	77.13
08 31 13 00-0021	EA	24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch.....		394.34	81.46
08 31 13 00-0022	EA	24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch.....		410.73	81.46
08 31 13 00-0023	EA	24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch.....		539.52	83.99
08 31 13 00-0024	EA	24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch.....		617.55	87.48
08 31 13 00-0025	EA	36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch.....		753.23	87.48
08 31 13 00-0026	EA	48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch.....		963.02	104.98

08 31 13 00-0027 Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0028	EA	8" x 8" Steel Access Door With Cam Latch.....		151.87	52.77
08 31 13 00-0029	EA	12" x 12" Steel Access Door With Cam Latch.....		162.56	68.87
08 31 13 00-0030	EA	12" x 18" Steel Access Door With Cam Latch.....		184.58	72.92
08 31 13 00-0031	EA	18" x 18" Steel Access Door With Cam Latch.....		190.63	77.13
08 31 13 00-0032	EA	24" x 18" Steel Access Door With Cam Latch.....		222.24	81.46
08 31 13 00-0033	EA	24" x 24" Steel Access Door With Cam Latch.....		226.76	81.46
08 31 13 00-0034	EA	24" x 36" Steel Access Door With Cam Latch.....		292.71	83.99
08 31 13 00-0035	EA	36" x 36" Steel Access Door With Cam Latch.....		375.17	87.48

08 31 13 00-0036 Steel Recessed Access Doors For Drywall Application (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0037	EA	8" x 8" Recessed Steel Access Door With Cam Latch.....		206.06	52.49
		<i>For Recessed Doors In Acoustical Tile, Add</i>		26.83	
08 31 13 00-0038	EA	12" x 12" Recessed Steel Access Door With Cam Latch.....		216.29	56.27
		<i>For Recessed Doors In Acoustical Tile, Add</i>		29.42	
08 31 13 00-0039	EA	12" x 18" Recessed Steel Access Door With Cam Latch.....		232.00	59.49
		<i>For Recessed Doors In Acoustical Tile, Add</i>		30.66	
08 31 13 00-0040	EA	18" x 18" Recessed Steel Access Door With Cam Latch.....		268.94	62.98
		<i>For Recessed Doors In Acoustical Tile, Add</i>		28.95	
08 31 13 00-0041	EA	24" x 18" Recessed Steel Access Door With Cam Latch.....		283.08	66.48
		<i>For Recessed Doors In Acoustical Tile, Add</i>		30.69	
08 31 13 00-0042	EA	24" x 24" Recessed Steel Access Door With Cam Latch.....		306.92	66.48
		<i>For Recessed Doors In Acoustical Tile, Add</i>		27.11	
08 31 13 00-0043	EA	24" x 36" Recessed Steel Access Door With Cam Latch.....		382.86	83.99
		<i>For Recessed Doors In Acoustical Tile, Add</i>		34.95	
08 31 13 00-0044	EA	36" x 36" Recessed Steel Access Door With Cam Latch.....		531.45	87.48
		<i>For Recessed Doors In Acoustical Tile, Add</i>		16.52	

08 31 13 00-0045 Steel Crawl Space Doors And Frames (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0046	EA	24" x 24" Steel Crawl Space Door With Cam Latch.....		239.92	88.60
08 31 13 00-0047	EA	30" x 24" Steel Crawl Space Door With Cam Latch.....		330.97	107.36

08	08	Openings
	08 30	Specialty Doors and Frames
	08 31	Access Doors and Panels



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 31 13 00-0048 EA 30" x 30" Steel Crawl Space Door With Cam Latch.....	369.64	116.60
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08 60 Roof Windows and Skylights ⁽⁰⁸⁾

Note: Includes hardware, caulk, sealant and necessary anchors.

08 62 Unit Skylights ^(08 60)

08 62 23 Tubular Skylights ^(08 62)

08 62 23 00-0001 Aluminum Framed Solar Tube Skylights ^(08 62 23)

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

08 62 23 00-0002 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights ^(08 62 23 00-0001)

08 62 23 00-0003 EA 2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,123.35	190.46
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	830.49	
08 62 23 00-0004 EA 3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,184.56	195.22
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	831.44	
08 62 23 00-0005 EA 4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,244.03	199.98
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	832.40	
08 62 23 00-0006 EA 5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,327.64	204.74
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	833.35	
08 62 23 00-0007 EA 6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,400.90	209.51
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	834.30	
08 62 23 00-0008 EA 7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,460.38	214.26
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	835.25	
08 62 23 00-0009 EA 8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,519.85	219.03
<i>For Class 3 Hail Rated, Add</i>		
	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>		
	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>		
	14.00	
<i>For FM Approved, Add</i>		
	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		
	69.00	
<i>For Single Blade Louver, Add</i>		
	836.21	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0010 EA 9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,617.23	223.79
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	837.16	
08 62 23 00-0011 EA 10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,676.71	228.55
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	838.11	
08 62 23 00-0012 EA 11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,737.91	233.31
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	839.06	
08 62 23 00-0013 EA 12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,797.38	238.08
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0014 EA 13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,894.76	242.83
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0015 EA 14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,954.24	247.60
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0016 EA 15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,013.72	252.35
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	842.87	
08 62 23 00-0017 EA 16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,073.19	257.12
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0018 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0019 EA 2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,355.90	190.46
<i>For Class 3 Hail Rated, Add</i>	5.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	22.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
<i>For Single Blade Louver, Add</i>	830.49	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
08 62 23 00-0020	EA 3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,439.50	195.22
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	831.44	
08 62 23 00-0021	EA 4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,523.10	199.98
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	832.40	
08 62 23 00-0022	EA 5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,606.70	204.74
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	833.35	
08 62 23 00-0023	EA 6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,741.98	209.51
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	834.30	
08 62 23 00-0024	EA 7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,825.57	214.26
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	835.25	
08 62 23 00-0025	EA 8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,909.16	219.03
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	836.21	
08 62 23 00-0026	EA 9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,044.43	223.79
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	837.16	
08 62 23 00-0027	EA 10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,128.03	228.55
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	838.11	
08 62 23 00-0028	EA 11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,211.62	233.31
	<i>For Class 3 Hail Rated, Add</i>	5.00	
	<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
	<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
	<i>For FM Approved, Add</i>	22.00	
	<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
	<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
	<i>For Single Blade Louver, Add</i>	839.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0029	EA		12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,295.22	238.08
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0030	EA		13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,430.49	242.83
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0031	EA		14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,514.09	247.60
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0032	EA		15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,597.68	252.35
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	842.87	
08 62 23 00-0033	EA		16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,681.27	257.12
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0034			55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0035	EA		2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,804.90	214.26
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	835.25	
08 62 23 00-0036	EA		3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,921.22	219.03
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	836.21	
08 62 23 00-0037	EA		4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,039.26	223.79
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	837.16	
08 62 23 00-0038	EA		5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,155.59	228.55
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	838.11	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0039	EA		6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,340.82	233.31
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	839.06	
08 62 23 00-0040	EA		7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,457.14	238.08
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0041	EA		8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,573.46	242.83
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0042	EA		9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,760.42	247.60
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0043	EA		10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,876.74	252.35
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	842.87	
08 62 23 00-0044	EA		11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,993.06	257.12
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0045	EA		12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,109.38	261.88
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	844.78	
08 62 23 00-0046	EA		13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,294.62	266.64
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	845.73	
08 62 23 00-0047	EA		14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,410.94	271.41
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	846.68	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0048 EA 15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,528.98	276.17
<i>For Class 3 Hail Rated, Add</i>	10.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
<i>For FM Approved, Add</i>	36.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
<i>For Single Blade Louver, Add</i>	847.63	
08 62 23 00-0049 EA 16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,645.30	280.93
<i>For Class 3 Hail Rated, Add</i>	10.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
<i>For FM Approved, Add</i>	36.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
<i>For Single Blade Louver, Add</i>	848.59	

08 63 Metal-Framed Skylights (08 60)

08 63 13 Domed Metal-Framed Skylights (08 63)

- 08 63 13 00-0001 Domed Aluminum Framed Skylights (08 63 13)
- 08 63 13 00-0002 Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)
- 08 63 13 00-0003 Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)
- 08 63 13 00-0004 Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.

08 63 13 00-0005 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	398.64	95.23
08 63 13 00-0006 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	457.88	95.23
08 63 13 00-0007 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	622.15	107.14
08 63 13 00-0008 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	703.52	119.04
08 63 13 00-0009 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	488.34	95.23
08 63 13 00-0010 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	600.15	107.14
08 63 13 00-0011 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	637.38	107.14
08 63 13 00-0012 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	733.98	119.04
08 63 13 00-0013 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	855.95	130.94
08 63 13 00-0014 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	606.92	107.14
08 63 13 00-0015 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	671.36	119.04
08 63 13 00-0016 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	742.44	119.04
08 63 13 00-0017 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	817.02	130.94
08 63 13 00-0018 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	905.15	142.85
08 63 13 00-0019 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,018.66	154.75
08 63 13 00-0020 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	722.14	119.04
08 63 13 00-0021 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	795.02	130.94
08 63 13 00-0022 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	906.84	142.85
08 63 13 00-0023 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	950.84	142.85
08 63 13 00-0024 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,098.20	154.75

08 63 13 00-0025 Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.

08 63 13 00-0026 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	483.26	95.23
08 63 13 00-0027 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	540.81	95.23

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0028	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	688.16	107.14
08 63 13 00-0029	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	771.22	119.04
08 63 13 00-0030	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	549.27	95.23
08 63 13 00-0031	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	647.54	107.14
08 63 13 00-0032	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	688.16	107.14
08 63 13 00-0033	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	791.53	119.04
08 63 13 00-0034	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	889.80	130.94
08 63 13 00-0035	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	654.31	107.14
08 63 13 00-0036	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	725.52	119.04
08 63 13 00-0037	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	771.22	119.04
08 63 13 00-0038	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	849.18	130.94
08 63 13 00-0039	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	922.07	142.85
08 63 13 00-0040	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,037.28	154.75
08 63 13 00-0041	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	777.99	119.04
08 63 13 00-0042	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	855.95	130.94
08 63 13 00-0043	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	942.38	142.85
08 63 13 00-0044	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	989.77	142.85
08 63 13 00-0045	EA		63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,123.59	154.75
08 63 13 00-0046			High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0047	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	490.03	95.23
08 63 13 00-0048	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	554.35	95.23
08 63 13 00-0049	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	706.78	107.14
08 63 13 00-0050	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	566.20	95.23
08 63 13 00-0051	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	671.24	107.14
08 63 13 00-0052	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	706.78	107.14
08 63 13 00-0053	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	811.84	119.04
08 63 13 00-0054	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	669.54	107.14
08 63 13 00-0055	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	739.06	119.04
08 63 13 00-0056	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	793.22	119.04
08 63 13 00-0057	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	871.18	130.94
08 63 13 00-0058	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	949.15	142.85
08 63 13 00-0059	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	798.30	119.04
08 63 13 00-0060	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	883.03	130.94
08 63 13 00-0061	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	969.46	142.85
08 63 13 00-0062	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,016.85	142.85
08 63 13 00-0063			FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0064	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	501.88	95.23



Openings	08	08
Roof Windows and Skylights	08 60	
Metal-Framed Skylights	08 63	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0065	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	572.96	95.23
08 63 13 00-0066	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	723.70	107.14
08 63 13 00-0067	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	832.15	119.04
08 63 13 00-0068	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	583.12	95.23
08 63 13 00-0069	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	686.47	107.14
08 63 13 00-0070	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	723.70	107.14
08 63 13 00-0071	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	837.22	119.04
08 63 13 00-0072	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	688.16	107.14
08 63 13 00-0073	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	757.68	119.04
08 63 13 00-0074	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	816.92	119.04
08 63 13 00-0075	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	896.57	130.94
08 63 13 00-0076	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	976.23	142.85
08 63 13 00-0077	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	823.68	119.04
08 63 13 00-0078	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	908.42	130.94
08 63 13 00-0079	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	996.54	142.85
08 63 13 00-0080	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,047.31	142.85
08 63 13 00-0081			Curb Top Inserts <small>(08 63 13 00-0003)</small> Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb.		
08 63 13 00-0082			Single Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0083	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	157.24	47.61
08 63 13 00-0084	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	219.11	53.56
08 63 13 00-0085	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	370.23	71.42
08 63 13 00-0086	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	342.82	65.47
08 63 13 00-0087	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	418.47	71.42
08 63 13 00-0088			Double Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0089	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	227.87	47.61
08 63 13 00-0090	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	355.19	53.56
08 63 13 00-0091	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	616.57	71.42
08 63 13 00-0092	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	604.66	65.47
08 63 13 00-0093	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	759.54	71.42
08 63 13 00-0094			Triple Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0095	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	296.77	47.61
08 63 13 00-0096	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	484.39	53.56
08 63 13 00-0097	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	919.74	71.42
08 63 13 00-0098	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	849.26	65.47
08 63 13 00-0099	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,076.50	71.42
08 63 13 00-0100			Pyramid Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0101			Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0102	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	368.17	95.23
08 63 13 00-0103	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	440.95	95.23
08 63 13 00-0104	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	559.53	107.14
08 63 13 00-0105	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	703.52	119.04
08 63 13 00-0106			Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0107 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	500.19	95.23
08 63 13 00-0108 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	576.35	95.23
08 63 13 00-0109 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	683.08	107.14
08 63 13 00-0110 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	816.92	119.04
08 63 13 00-0111 Double Hip Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)		
08 63 13 00-0112 Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111)		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0113 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	430.80	95.23
08 63 13 00-0114 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	571.38	107.14
08 63 13 00-0115 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	676.44	119.04
08 63 13 00-0116 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	535.84	107.14
08 63 13 00-0117 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	571.38	107.14
08 63 13 00-0118 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	696.75	119.04
08 63 13 00-0119 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	820.40	130.94
08 63 13 00-0120 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	625.66	119.04
08 63 13 00-0121 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	676.44	119.04
08 63 13 00-0122 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	756.09	130.94
08 63 13 00-0123 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	830.67	142.85
08 63 13 00-0124 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	981.42	154.75
08 63 13 00-0125 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	776.40	130.94
08 63 13 00-0126 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	881.45	142.85
08 63 13 00-0127 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	933.92	142.85
08 63 13 00-0128 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,079.59	154.75
08 63 13 00-0129 Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111)		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0130 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	488.34	95.23
08 63 13 00-0131 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	549.27	95.23
08 63 13 00-0132 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	696.62	107.14
08 63 13 00-0133 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	561.12	95.23
08 63 13 00-0134 EA 39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	628.92	107.14
08 63 13 00-0135 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	661.08	107.14
08 63 13 00-0136 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	696.62	107.14
08 63 13 00-0137 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	803.38	119.04
08 63 13 00-0138 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	662.77	107.14
08 63 13 00-0139 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	732.29	119.04
08 63 13 00-0140 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	783.06	119.04
08 63 13 00-0141 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	859.33	130.94
08 63 13 00-0142 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	935.61	142.85
08 63 13 00-0143 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	786.45	119.04
08 63 13 00-0144 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	871.18	130.94



Openings	08	08
Roof Windows and Skylights	08 60	
Metal-Framed Skylights	08 63	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0145	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	955.92	142.85
08 63 13 00-0146	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,001.62	142.85
08 63 13 00-0147		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0148	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	544.19	95.23
08 63 13 00-0149	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	718.62	107.14
08 63 13 00-0150	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	679.70	107.14
08 63 13 00-0151	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	718.62	107.14
08 63 13 00-0152	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	830.46	119.04
08 63 13 00-0153	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	752.60	119.04
08 63 13 00-0154	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	808.45	119.04
08 63 13 00-0155	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	889.80	130.94
08 63 13 00-0156	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	962.69	142.85
08 63 13 00-0157	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	901.64	130.94
08 63 13 00-0158	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	989.77	142.85
08 63 13 00-0159	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,038.85	142.85
08 63 13 00-0160		Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0001)</small>		
08 63 13 00-0161		Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0160)</small> Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing.		
08 63 13 00-0162		Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0163		10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0164	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,262.53	142.85
08 63 13 00-0165	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,108.51	142.85
08 63 13 00-0166	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,375.93	142.85
08 63 13 00-0167		25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0168	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,937.84	142.85
08 63 13 00-0169	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,790.59	142.85
08 63 13 00-0170	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,091.85	142.85
08 63 13 00-0171		30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0172	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,132.47	142.85
08 63 13 00-0173	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,981.84	142.85
08 63 13 00-0174	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,283.11	142.85
08 63 13 00-0175		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0176		10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0177	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,272.69	142.85
08 63 13 00-0178	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,118.67	142.85
08 63 13 00-0179	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,391.16	142.85
08 63 13 00-0180			25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0181	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,951.38	142.85
08 63 13 00-0182	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,800.75	142.85
08 63 13 00-0183	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,108.78	142.85
08 63 13 00-0184			30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0185	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,142.63	142.85
08 63 13 00-0186	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,992.00	142.85
08 63 13 00-0187	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,300.03	142.85
08 66 Wood-Framed Skylights (08 66)					
08 66 00 00-0001			Wood-Framed Skylights (Andersen 400 Series) (08 66)		
08 66 00 00-0002	EA		16-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	713.78	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	105.24	
			<i>For Aluminum Shingle Flashing, Add</i>	84.19	
08 66 00 00-0003	EA		16-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	730.97	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	109.54	
			<i>For Aluminum Shingle Flashing, Add</i>	87.63	
08 66 00 00-0004	EA		24-1/2" x 27", Domed, Wood-Framed Skylight (Andersen 400 Series).....	690.16	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	99.34	
			<i>For Aluminum Shingle Flashing, Add</i>	79.47	
08 66 00 00-0005	EA		24-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	743.85	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	112.76	
			<i>For Aluminum Shingle Flashing, Add</i>	90.21	
08 66 00 00-0006	EA		24-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	788.96	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	124.04	
			<i>For Aluminum Shingle Flashing, Add</i>	99.23	
08 66 00 00-0007	EA		24-1/2" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	861.98	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	142.29	
			<i>For Aluminum Shingle Flashing, Add</i>	113.83	
08 66 00 00-0008	EA		24-1/2" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	954.34	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	165.38	
			<i>For Aluminum Shingle Flashing, Add</i>	132.31	
08 66 00 00-0009	EA		27" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	690.16	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	99.34	
			<i>For Aluminum Shingle Flashing, Add</i>	79.47	
08 66 00 00-0010	EA		28" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	799.70	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	126.72	
			<i>For Aluminum Shingle Flashing, Add</i>	101.38	
08 66 00 00-0011	EA		28" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	861.98	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	142.29	
			<i>For Aluminum Shingle Flashing, Add</i>	113.83	
08 66 00 00-0012	EA		28" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	932.86	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	160.01	
			<i>For Aluminum Shingle Flashing, Add</i>	128.01	
08 66 00 00-0013	EA		28" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	1,027.36	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	183.64	
			<i>For Aluminum Shingle Flashing, Add</i>	146.91	
08 66 00 00-0014	EA		38" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	713.78	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	105.24	
			<i>For Aluminum Shingle Flashing, Add</i>	84.19	
08 66 00 00-0015	EA		38" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	743.85	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	112.76	
			<i>For Aluminum Shingle Flashing, Add</i>	90.21	
08 66 00 00-0016	EA		38" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series).....	799.70	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	126.72	
			<i>For Aluminum Shingle Flashing, Add</i>	101.38	
08 66 00 00-0017	EA		44" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	997.30	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	176.12	
			<i>For Aluminum Shingle Flashing, Add</i>	140.90	
08 66 00 00-0018	EA		46" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	730.97	146.40
			<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	109.54	
			<i>For Aluminum Shingle Flashing, Add</i>	87.63	



Openings	08
Roof Windows and Skylights	08 60
Wood-Framed Skylights	08 66

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 66 00 00-0019	EA		46" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	788.96 124.04 99.23	146.40
08 66 00 00-0020	EA		46" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	861.98 142.29 113.83	146.40
08 66 00 00-0021	EA		46" x 44", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	997.30 176.12 140.90	146.40
08 66 00 00-0022	EA		57" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	861.98 142.29 113.83	146.40
08 66 00 00-0023	EA		57" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	932.86 160.01 128.01	146.40
08 66 00 00-0024	EA		72" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	954.34 165.38 132.31	146.40
08 66 00 00-0025	EA		72" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	1,027.36 183.64 146.91	146.40

08 90 Louvers and Vents ⁽⁰⁸⁾

08 91 Louvers ^(08 90)

08 91 13 Motorized Wall Louvers ^(08 91)

08 91 13 00-0001			Motorized Wall Louver Actuator ^(08 91 13) See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.		
08 91 13 00-0002	EA		115 Volt Actuator For Adjustable Intake Louver.....	1,650.96	119.13
08 91 13 00-0003	EA		230 Volt Actuator For Adjustable Intake Louver.....	2,481.09	119.13
08 91 13 00-0004	EA		24 Volt Actuator For Adjustable Intake Louver.....	1,769.29	119.13
08 91 13 00-0005	EA		115 Volt Hazardous Location Actuator For Adjustable Intake Louver.....	6,641.90	119.13

08 91 16 Operable Wall Louvers ^(08 91)

08 91 16 00-0001			Adjustable Intake Wall Louvers ^(08 91 16) See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.		
08 91 16 00-0002	EA		12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	443.01 37.99 75.99 113.98 151.98 208.97	31.54
08 91 16 00-0003	EA		12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	553.17 47.61 95.22 142.82 190.43 261.84	38.55
08 91 16 00-0004	EA		12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	654.07 56.30 112.59 168.89 225.19 309.63	45.55
08 91 16 00-0005	EA		12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	765.15 66.00 132.01 198.01 264.02 363.02	52.56
08 91 16 00-0006	EA		12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	862.36 74.32 148.65 222.97 297.29 408.78	59.57
08 91 16 00-0007	EA		12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,015.97 88.28 176.56 264.85 353.13 485.55	66.58

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0008 EA 12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,156.63	73.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.95	
For Clear Lacquer Finish, Add	201.89	
For Baked Enamel Standard Colors, Add	302.84	
For Anodized Finish, Add	403.79	
For Kynar® Standard Colors Finish, Add	555.21	
08 91 16 00-0009 EA 12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,285.81	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	111.76	
For Clear Lacquer Finish, Add	223.52	
For Baked Enamel Standard Colors, Add	335.29	
For Anodized Finish, Add	447.05	
For Kynar® Standard Colors Finish, Add	614.69	
08 91 16 00-0010 EA 12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,372.85	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	119.07	
For Clear Lacquer Finish, Add	238.13	
For Baked Enamel Standard Colors, Add	357.20	
For Anodized Finish, Add	476.26	
For Kynar® Standard Colors Finish, Add	654.86	
08 91 16 00-0011 EA 12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,481.16	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	128.49	
For Clear Lacquer Finish, Add	256.99	
For Baked Enamel Standard Colors, Add	385.48	
For Anodized Finish, Add	513.98	
For Kynar® Standard Colors Finish, Add	706.72	
08 91 16 00-0012 EA 12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,576.53	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	136.63	
For Clear Lacquer Finish, Add	273.26	
For Baked Enamel Standard Colors, Add	409.89	
For Anodized Finish, Add	546.52	
For Kynar® Standard Colors Finish, Add	751.46	
08 91 16 00-0013 EA 12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,697.78	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	147.35	
For Clear Lacquer Finish, Add	294.71	
For Baked Enamel Standard Colors, Add	442.06	
For Anodized Finish, Add	589.41	
For Kynar® Standard Colors Finish, Add	810.44	
08 91 16 00-0014 EA 12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,814.41	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	157.61	
For Clear Lacquer Finish, Add	315.23	
For Baked Enamel Standard Colors, Add	472.84	
For Anodized Finish, Add	630.46	
For Kynar® Standard Colors Finish, Add	866.88	
08 91 16 00-0015 EA 12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,960.23	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	170.09	
For Clear Lacquer Finish, Add	340.19	
For Baked Enamel Standard Colors, Add	510.28	
For Anodized Finish, Add	680.37	
For Kynar® Standard Colors Finish, Add	935.51	
08 91 16 00-0016 EA 12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,069.06	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	178.88	
For Clear Lacquer Finish, Add	357.75	
For Baked Enamel Standard Colors, Add	536.63	
For Anodized Finish, Add	715.50	
For Kynar® Standard Colors Finish, Add	983.81	
08 91 16 00-0017 EA 18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	498.63	38.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	42.15	
For Clear Lacquer Finish, Add	84.31	
For Baked Enamel Standard Colors, Add	126.46	
For Anodized Finish, Add	168.62	
For Kynar® Standard Colors Finish, Add	231.85	
08 91 16 00-0018 EA 18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	629.65	49.06
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	53.15	
For Clear Lacquer Finish, Add	106.31	
For Baked Enamel Standard Colors, Add	159.46	
For Anodized Finish, Add	212.62	
For Kynar® Standard Colors Finish, Add	292.35	
08 91 16 00-0019 EA 18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	737.95	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	62.58	
For Clear Lacquer Finish, Add	125.17	
For Baked Enamel Standard Colors, Add	187.75	
For Anodized Finish, Add	250.33	
For Kynar® Standard Colors Finish, Add	344.21	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0020 EA 18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	918.51	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.84	
For Clear Lacquer Finish, Add	155.67	
For Baked Enamel Standard Colors, Add	233.51	
For Anodized Finish, Add	311.34	
For Kynar® Standard Colors Finish, Add	428.10	
08 91 16 00-0021 EA 18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,043.46	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	88.93	
For Clear Lacquer Finish, Add	177.86	
For Baked Enamel Standard Colors, Add	266.79	
For Anodized Finish, Add	355.72	
For Kynar® Standard Colors Finish, Add	489.11	
08 91 16 00-0022 EA 18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,168.41	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.02	
For Clear Lacquer Finish, Add	200.04	
For Baked Enamel Standard Colors, Add	300.07	
For Anodized Finish, Add	400.09	
For Kynar® Standard Colors Finish, Add	550.12	
08 91 16 00-0023 EA 18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,317.39	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	113.52	
For Clear Lacquer Finish, Add	227.04	
For Baked Enamel Standard Colors, Add	340.56	
For Anodized Finish, Add	454.08	
For Kynar® Standard Colors Finish, Add	624.35	
08 91 16 00-0024 EA 18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,461.37	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	125.81	
For Clear Lacquer Finish, Add	251.63	
For Baked Enamel Standard Colors, Add	377.44	
For Anodized Finish, Add	503.26	
For Kynar® Standard Colors Finish, Add	691.98	
08 91 16 00-0025 EA 18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,577.60	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	135.34	
For Clear Lacquer Finish, Add	270.67	
For Baked Enamel Standard Colors, Add	406.01	
For Anodized Finish, Add	541.34	
For Kynar® Standard Colors Finish, Add	744.34	
08 91 16 00-0026 EA 18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,687.76	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	144.95	
For Clear Lacquer Finish, Add	289.90	
For Baked Enamel Standard Colors, Add	434.85	
For Anodized Finish, Add	579.80	
For Kynar® Standard Colors Finish, Add	797.22	
08 91 16 00-0027 EA 18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,791.45	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	153.92	
For Clear Lacquer Finish, Add	307.83	
For Baked Enamel Standard Colors, Add	461.75	
For Anodized Finish, Add	615.66	
For Kynar® Standard Colors Finish, Add	846.54	
08 91 16 00-0028 EA 18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,924.71	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	165.84	
For Clear Lacquer Finish, Add	331.68	
For Baked Enamel Standard Colors, Add	497.52	
For Anodized Finish, Add	663.36	
For Kynar® Standard Colors Finish, Add	912.13	
08 91 16 00-0029 EA 18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,053.35	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	177.30	
For Clear Lacquer Finish, Add	354.61	
For Baked Enamel Standard Colors, Add	531.91	
For Anodized Finish, Add	709.22	
For Kynar® Standard Colors Finish, Add	975.17	
08 91 16 00-0030 EA 18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,211.18	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	190.99	
For Clear Lacquer Finish, Add	381.97	
For Baked Enamel Standard Colors, Add	572.96	
For Anodized Finish, Add	763.94	
For Kynar® Standard Colors Finish, Add	1,050.42	
08 91 16 00-0031 EA 18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,332.05	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	200.97	
For Clear Lacquer Finish, Add	401.94	
For Baked Enamel Standard Colors, Add	602.91	
For Anodized Finish, Add	803.88	
For Kynar® Standard Colors Finish, Add	1,105.33	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0032 EA 24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	558.86	45.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	46.78	
For Clear Lacquer Finish, Add	93.55	
For Baked Enamel Standard Colors, Add	140.33	
For Anodized Finish, Add	187.10	
For Kynar® Standard Colors Finish, Add	257.27	
08 91 16 00-0033 EA 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	708.37	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	59.63	
For Clear Lacquer Finish, Add	119.25	
For Baked Enamel Standard Colors, Add	178.88	
For Anodized Finish, Add	238.50	
For Kynar® Standard Colors Finish, Add	327.94	
08 91 16 00-0034 EA 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	876.38	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	74.32	
For Clear Lacquer Finish, Add	148.65	
For Baked Enamel Standard Colors, Add	222.97	
For Anodized Finish, Add	297.29	
For Kynar® Standard Colors Finish, Add	408.78	
08 91 16 00-0035 EA 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,034.76	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	87.36	
For Clear Lacquer Finish, Add	174.72	
For Baked Enamel Standard Colors, Add	262.07	
For Anodized Finish, Add	349.43	
For Kynar® Standard Colors Finish, Add	480.47	
08 91 16 00-0036 EA 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,171.72	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 16 00-0037 EA 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,316.08	94.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 16 00-0038 EA 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,495.18	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	128.49	
For Clear Lacquer Finish, Add	256.99	
For Baked Enamel Standard Colors, Add	385.48	
For Anodized Finish, Add	513.98	
For Kynar® Standard Colors Finish, Add	706.72	
08 91 16 00-0039 EA 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,648.93	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	141.07	
For Clear Lacquer Finish, Add	282.13	
For Baked Enamel Standard Colors, Add	423.20	
For Anodized Finish, Add	564.26	
For Kynar® Standard Colors Finish, Add	775.86	
08 91 16 00-0040 EA 24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,766.49	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	151.42	
For Clear Lacquer Finish, Add	302.84	
For Baked Enamel Standard Colors, Add	454.26	
For Anodized Finish, Add	605.68	
For Kynar® Standard Colors Finish, Add	832.81	
08 91 16 00-0041 EA 24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,898.05	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	161.77	
For Clear Lacquer Finish, Add	323.55	
For Baked Enamel Standard Colors, Add	485.32	
For Anodized Finish, Add	647.10	
For Kynar® Standard Colors Finish, Add	889.76	
08 91 16 00-0042 EA 24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,017.45	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	172.31	
For Clear Lacquer Finish, Add	344.62	
For Baked Enamel Standard Colors, Add	516.94	
For Anodized Finish, Add	689.25	
For Kynar® Standard Colors Finish, Add	947.72	
08 91 16 00-0043 EA 24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,178.44	154.17
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	187.01	
For Clear Lacquer Finish, Add	374.02	
For Baked Enamel Standard Colors, Add	561.03	
For Anodized Finish, Add	748.04	
For Kynar® Standard Colors Finish, Add	1,028.56	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0044 EA 24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,315.41	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	199.31	
For Clear Lacquer Finish, Add	398.61	
For Baked Enamel Standard Colors, Add	597.92	
For Anodized Finish, Add	797.22	
For Kynar® Standard Colors Finish, Add	1,096.18	
08 91 16 00-0045 EA 24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,488.96	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	214.56	
For Clear Lacquer Finish, Add	429.12	
For Baked Enamel Standard Colors, Add	643.67	
For Anodized Finish, Add	858.23	
For Kynar® Standard Colors Finish, Add	1,180.07	
08 91 16 00-0046 EA 24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,618.15	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	225.37	
For Clear Lacquer Finish, Add	450.75	
For Baked Enamel Standard Colors, Add	676.12	
For Anodized Finish, Add	901.50	
For Kynar® Standard Colors Finish, Add	1,239.56	
08 91 16 00-0047 EA 30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	623.71	52.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	51.86	
For Clear Lacquer Finish, Add	103.72	
For Baked Enamel Standard Colors, Add	155.58	
For Anodized Finish, Add	207.44	
For Kynar® Standard Colors Finish, Add	285.23	
08 91 16 00-0048 EA 30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	830.69	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	69.05	
For Clear Lacquer Finish, Add	138.11	
For Baked Enamel Standard Colors, Add	207.16	
For Anodized Finish, Add	276.22	
For Kynar® Standard Colors Finish, Add	379.80	
08 91 16 00-0049 EA 30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	984.84	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	82.37	
For Clear Lacquer Finish, Add	164.73	
For Baked Enamel Standard Colors, Add	247.10	
For Anodized Finish, Add	329.46	
For Kynar® Standard Colors Finish, Add	453.01	
08 91 16 00-0050 EA 30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,152.84	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	97.06	
For Clear Lacquer Finish, Add	194.13	
For Baked Enamel Standard Colors, Add	291.19	
For Anodized Finish, Add	388.26	
For Kynar® Standard Colors Finish, Add	533.85	
08 91 16 00-0051 EA 30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,301.83	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	110.56	
For Clear Lacquer Finish, Add	221.12	
For Baked Enamel Standard Colors, Add	331.68	
For Anodized Finish, Add	442.24	
For Kynar® Standard Colors Finish, Add	608.09	
08 91 16 00-0052 EA 30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,457.82	108.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	124.06	
For Clear Lacquer Finish, Add	248.11	
For Baked Enamel Standard Colors, Add	372.17	
For Anodized Finish, Add	496.23	
For Kynar® Standard Colors Finish, Add	682.31	
08 91 16 00-0053 EA 30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,641.92	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	141.07	
For Clear Lacquer Finish, Add	282.13	
For Baked Enamel Standard Colors, Add	423.20	
For Anodized Finish, Add	564.26	
For Kynar® Standard Colors Finish, Add	775.86	
08 91 16 00-0054 EA 30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,801.62	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	154.93	
For Clear Lacquer Finish, Add	309.87	
For Baked Enamel Standard Colors, Add	464.80	
For Anodized Finish, Add	619.73	
For Kynar® Standard Colors Finish, Add	852.13	
08 91 16 00-0055 EA 30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,932.10	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	166.58	
For Clear Lacquer Finish, Add	333.16	
For Baked Enamel Standard Colors, Add	499.74	
For Anodized Finish, Add	666.32	
For Kynar® Standard Colors Finish, Add	916.19	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0056 EA 30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,078.46	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	178.41	
For Clear Lacquer Finish, Add	356.83	
For Baked Enamel Standard Colors, Add	535.24	
For Anodized Finish, Add	713.65	
For Kynar® Standard Colors Finish, Add	981.27	
08 91 16 00-0057 EA 30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,216.88	157.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	190.15	
For Clear Lacquer Finish, Add	380.31	
For Baked Enamel Standard Colors, Add	570.46	
For Anodized Finish, Add	760.61	
For Kynar® Standard Colors Finish, Add	1,045.84	
08 91 16 00-0058 EA 30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,388.05	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	205.87	
For Clear Lacquer Finish, Add	411.74	
For Baked Enamel Standard Colors, Add	617.60	
For Anodized Finish, Add	823.47	
For Kynar® Standard Colors Finish, Add	1,132.27	
08 91 16 00-0059 EA 30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,537.03	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	219.37	
For Clear Lacquer Finish, Add	438.73	
For Baked Enamel Standard Colors, Add	658.10	
For Anodized Finish, Add	877.46	
For Kynar® Standard Colors Finish, Add	1,206.51	
08 91 16 00-0060 EA 30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,718.91	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	235.45	
For Clear Lacquer Finish, Add	470.90	
For Baked Enamel Standard Colors, Add	706.35	
For Anodized Finish, Add	941.80	
For Kynar® Standard Colors Finish, Add	1,294.98	
08 91 16 00-0061 EA 30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,864.72	192.72
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	247.93	
For Clear Lacquer Finish, Add	495.86	
For Baked Enamel Standard Colors, Add	743.79	
For Anodized Finish, Add	991.72	
For Kynar® Standard Colors Finish, Add	1,363.61	
08 91 16 00-0062 EA 36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	683.95	59.57
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	56.48	
For Clear Lacquer Finish, Add	112.96	
For Baked Enamel Standard Colors, Add	169.45	
For Anodized Finish, Add	225.93	
For Kynar® Standard Colors Finish, Add	310.65	
08 91 16 00-0063 EA 36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	924.21	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.00	
For Clear Lacquer Finish, Add	154.01	
For Baked Enamel Standard Colors, Add	231.01	
For Anodized Finish, Add	308.02	
For Kynar® Standard Colors Finish, Add	423.52	
08 91 16 00-0064 EA 36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,079.28	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	90.41	
For Clear Lacquer Finish, Add	180.82	
For Baked Enamel Standard Colors, Add	271.22	
For Anodized Finish, Add	361.63	
For Kynar® Standard Colors Finish, Add	497.24	
08 91 16 00-0065 EA 36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,263.00	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	106.68	
For Clear Lacquer Finish, Add	213.36	
For Baked Enamel Standard Colors, Add	320.03	
For Anodized Finish, Add	426.71	
For Kynar® Standard Colors Finish, Add	586.73	
08 91 16 00-0066 EA 36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,432.34	106.52
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	121.93	
For Clear Lacquer Finish, Add	243.86	
For Baked Enamel Standard Colors, Add	365.79	
For Anodized Finish, Add	487.72	
For Kynar® Standard Colors Finish, Add	670.62	
08 91 16 00-0067 EA 36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,592.01	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	136.08	
For Clear Lacquer Finish, Add	272.15	
For Baked Enamel Standard Colors, Add	408.23	
For Anodized Finish, Add	544.30	
For Kynar® Standard Colors Finish, Add	748.41	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0068 EA 36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,797.38	122.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	155.21	
For Clear Lacquer Finish, Add	310.42	
For Baked Enamel Standard Colors, Add	465.63	
For Anodized Finish, Add	620.84	
For Kynar® Standard Colors Finish, Add	853.66	
08 91 16 00-0069 EA 36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,976.48	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	171.02	
For Clear Lacquer Finish, Add	342.04	
For Baked Enamel Standard Colors, Add	513.05	
For Anodized Finish, Add	684.07	
For Kynar® Standard Colors Finish, Add	940.60	
08 91 16 00-0070 EA 36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,123.22	143.66
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	183.59	
For Clear Lacquer Finish, Add	367.18	
For Baked Enamel Standard Colors, Add	550.77	
For Anodized Finish, Add	734.36	
For Kynar® Standard Colors Finish, Add	1,009.75	
08 91 16 00-0071 EA 36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,273.66	154.17
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	196.53	
For Clear Lacquer Finish, Add	393.06	
For Baked Enamel Standard Colors, Add	589.60	
For Anodized Finish, Add	786.13	
For Kynar® Standard Colors Finish, Add	1,080.93	
08 91 16 00-0072 EA 36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,428.73	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	209.94	
For Clear Lacquer Finish, Add	419.87	
For Baked Enamel Standard Colors, Add	629.81	
For Anodized Finish, Add	839.74	
For Kynar® Standard Colors Finish, Add	1,154.65	
08 91 16 00-0073 EA 36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,615.60	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	227.22	
For Clear Lacquer Finish, Add	454.44	
For Baked Enamel Standard Colors, Add	681.67	
For Anodized Finish, Add	908.89	
For Kynar® Standard Colors Finish, Add	1,249.72	
08 91 16 00-0074 EA 36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,775.68	178.70
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	241.83	
For Clear Lacquer Finish, Add	483.66	
For Baked Enamel Standard Colors, Add	725.48	
For Anodized Finish, Add	967.31	
For Kynar® Standard Colors Finish, Add	1,330.05	
08 91 16 00-0075 EA 36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,980.67	189.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	260.22	
For Clear Lacquer Finish, Add	520.45	
For Baked Enamel Standard Colors, Add	780.67	
For Anodized Finish, Add	1,040.90	
For Kynar® Standard Colors Finish, Add	1,431.23	
08 91 16 00-0076 EA 36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,134.81	199.73
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	273.54	
For Clear Lacquer Finish, Add	547.07	
For Baked Enamel Standard Colors, Add	820.61	
For Anodized Finish, Add	1,094.14	
For Kynar® Standard Colors Finish, Add	1,504.45	
08 91 16 00-0077 EA 42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	782.09	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	64.89	
For Clear Lacquer Finish, Add	129.79	
For Baked Enamel Standard Colors, Add	194.68	
For Anodized Finish, Add	259.58	
For Kynar® Standard Colors Finish, Add	356.92	
08 91 16 00-0078 EA 42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	997.39	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	82.92	
For Clear Lacquer Finish, Add	165.84	
For Baked Enamel Standard Colors, Add	248.76	
For Anodized Finish, Add	331.68	
For Kynar® Standard Colors Finish, Add	456.06	
08 91 16 00-0079 EA 42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,169.10	94.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	97.99	
For Clear Lacquer Finish, Add	195.98	
For Baked Enamel Standard Colors, Add	293.97	
For Anodized Finish, Add	391.96	
For Kynar® Standard Colors Finish, Add	538.94	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0080 EA 42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,366.30	108.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	114.91	
For Clear Lacquer Finish, Add	229.81	
For Baked Enamel Standard Colors, Add	344.72	
For Anodized Finish, Add	459.62	
For Kynar® Standard Colors Finish, Add	631.98	
08 91 16 00-0081 EA 42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,545.79	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	131.45	
For Clear Lacquer Finish, Add	262.91	
For Baked Enamel Standard Colors, Add	394.36	
For Anodized Finish, Add	525.81	
For Kynar® Standard Colors Finish, Add	722.99	
08 91 16 00-0082 EA 42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,716.03	122.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	147.08	
For Clear Lacquer Finish, Add	294.15	
For Baked Enamel Standard Colors, Add	441.23	
For Anodized Finish, Add	588.30	
For Kynar® Standard Colors Finish, Add	808.91	
08 91 16 00-0083 EA 42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,938.97	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	167.97	
For Clear Lacquer Finish, Add	335.93	
For Baked Enamel Standard Colors, Add	503.90	
For Anodized Finish, Add	671.87	
For Kynar® Standard Colors Finish, Add	923.82	
08 91 16 00-0084 EA 42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,120.83	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	184.05	
For Clear Lacquer Finish, Add	368.10	
For Baked Enamel Standard Colors, Add	552.16	
For Anodized Finish, Add	736.21	
For Kynar® Standard Colors Finish, Add	1,012.29	
08 91 16 00-0085 EA 42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,285.14	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	198.38	
For Clear Lacquer Finish, Add	396.76	
For Baked Enamel Standard Colors, Add	595.14	
For Anodized Finish, Add	793.52	
For Kynar® Standard Colors Finish, Add	1,091.10	
08 91 16 00-0086 EA 42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,439.28	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	211.69	
For Clear Lacquer Finish, Add	423.38	
For Baked Enamel Standard Colors, Add	635.08	
For Anodized Finish, Add	846.77	
For Kynar® Standard Colors Finish, Add	1,164.31	
08 91 16 00-0087 EA 42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,607.28	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	226.39	
For Clear Lacquer Finish, Add	452.78	
For Baked Enamel Standard Colors, Add	679.17	
For Anodized Finish, Add	905.56	
For Kynar® Standard Colors Finish, Add	1,245.15	
08 91 16 00-0088 EA 42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,808.04	178.70
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	245.06	
For Clear Lacquer Finish, Add	490.13	
For Baked Enamel Standard Colors, Add	735.19	
For Anodized Finish, Add	980.26	
For Kynar® Standard Colors Finish, Add	1,347.85	
08 91 16 00-0089 EA 42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,982.91	185.71
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	261.15	
For Clear Lacquer Finish, Add	522.30	
For Baked Enamel Standard Colors, Add	783.45	
For Anodized Finish, Add	1,044.60	
For Kynar® Standard Colors Finish, Add	1,436.32	
08 91 16 00-0090 EA 42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,211.92	196.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	281.95	
For Clear Lacquer Finish, Add	563.90	
For Baked Enamel Standard Colors, Add	845.84	
For Anodized Finish, Add	1,127.79	
For Kynar® Standard Colors Finish, Add	1,550.71	
08 91 16 00-0091 EA 42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,372.54	206.73
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	295.91	
For Clear Lacquer Finish, Add	591.81	
For Baked Enamel Standard Colors, Add	887.72	
For Anodized Finish, Add	1,183.63	
For Kynar® Standard Colors Finish, Add	1,627.49	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0092 EA 48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	846.95	73.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	69.98	
For Clear Lacquer Finish, Add	139.96	
For Baked Enamel Standard Colors, Add	209.94	
For Anodized Finish, Add	279.92	
For Kynar® Standard Colors Finish, Add	384.88	
08 91 16 00-0093 EA 48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,075.19	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	89.30	
For Clear Lacquer Finish, Add	178.60	
For Baked Enamel Standard Colors, Add	267.90	
For Anodized Finish, Add	357.20	
For Kynar® Standard Colors Finish, Add	491.14	
08 91 16 00-0094 EA 48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,271.47	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	106.12	
For Clear Lacquer Finish, Add	212.25	
For Baked Enamel Standard Colors, Add	318.37	
For Anodized Finish, Add	424.49	
For Kynar® Standard Colors Finish, Add	583.68	
08 91 16 00-0095 EA 48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,471.83	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	124.06	
For Clear Lacquer Finish, Add	248.11	
For Baked Enamel Standard Colors, Add	372.17	
For Anodized Finish, Add	496.23	
For Kynar® Standard Colors Finish, Add	682.31	
08 91 16 00-0096 EA 48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,669.81	122.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	142.45	
For Clear Lacquer Finish, Add	284.91	
For Baked Enamel Standard Colors, Add	427.36	
For Anodized Finish, Add	569.81	
For Kynar® Standard Colors Finish, Add	783.49	
08 91 16 00-0097 EA 48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,861.32	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	160.20	
For Clear Lacquer Finish, Add	320.40	
For Baked Enamel Standard Colors, Add	480.61	
For Anodized Finish, Add	640.81	
For Kynar® Standard Colors Finish, Add	881.11	
08 91 16 00-0098 EA 48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,100.49	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	182.02	
For Clear Lacquer Finish, Add	364.04	
For Baked Enamel Standard Colors, Add	546.05	
For Anodized Finish, Add	728.07	
For Kynar® Standard Colors Finish, Add	1,001.10	
08 91 16 00-0099 EA 48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,299.00	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	199.77	
For Clear Lacquer Finish, Add	399.53	
For Baked Enamel Standard Colors, Add	599.30	
For Anodized Finish, Add	799.07	
For Kynar® Standard Colors Finish, Add	1,098.72	
08 91 16 00-0100 EA 48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,471.64	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	214.93	
For Clear Lacquer Finish, Add	429.86	
For Baked Enamel Standard Colors, Add	644.78	
For Anodized Finish, Add	859.71	
For Kynar® Standard Colors Finish, Add	1,182.10	
08 91 16 00-0101 EA 48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,647.03	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	230.37	
For Clear Lacquer Finish, Add	460.73	
For Baked Enamel Standard Colors, Add	691.10	
For Anodized Finish, Add	921.46	
For Kynar® Standard Colors Finish, Add	1,267.01	
08 91 16 00-0102 EA 48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,818.75	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	245.43	
For Clear Lacquer Finish, Add	490.87	
For Baked Enamel Standard Colors, Add	736.30	
For Anodized Finish, Add	981.74	
For Kynar® Standard Colors Finish, Add	1,349.89	
08 91 16 00-0103 EA 48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,045.38	189.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	266.70	
For Clear Lacquer Finish, Add	533.39	
For Baked Enamel Standard Colors, Add	800.09	
For Anodized Finish, Add	1,066.78	
For Kynar® Standard Colors Finish, Add	1,466.82	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0104 EA 48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,234.11	196.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	284.17	
For Clear Lacquer Finish, Add	568.33	
For Baked Enamel Standard Colors, Add	852.50	
For Anodized Finish, Add	1,136.67	
For Kynar® Standard Colors Finish, Add	1,562.92	
08 91 16 00-0105 EA 48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,466.29	203.23
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	305.98	
For Clear Lacquer Finish, Add	611.97	
For Baked Enamel Standard Colors, Add	917.95	
For Anodized Finish, Add	1,223.93	
For Kynar® Standard Colors Finish, Add	1,682.91	
08 91 16 00-0106 EA 48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,642.61	213.74
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	321.51	
For Clear Lacquer Finish, Add	643.03	
For Baked Enamel Standard Colors, Add	964.54	
For Anodized Finish, Add	1,286.05	
For Kynar® Standard Colors Finish, Add	1,768.32	
08 91 16 00-0107 EA 54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	982.60	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	81.44	
For Clear Lacquer Finish, Add	162.88	
For Baked Enamel Standard Colors, Add	244.32	
For Anodized Finish, Add	325.76	
For Kynar® Standard Colors Finish, Add	447.93	
08 91 16 00-0108 EA 54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,257.07	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.38	
For Clear Lacquer Finish, Add	210.77	
For Baked Enamel Standard Colors, Add	316.15	
For Anodized Finish, Add	421.54	
For Kynar® Standard Colors Finish, Add	579.61	
08 91 16 00-0109 EA 54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,473.30	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	123.50	
For Clear Lacquer Finish, Add	247.01	
For Baked Enamel Standard Colors, Add	370.51	
For Anodized Finish, Add	494.01	
For Kynar® Standard Colors Finish, Add	679.27	
08 91 16 00-0110 EA 54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,687.91	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	143.56	
For Clear Lacquer Finish, Add	287.12	
For Baked Enamel Standard Colors, Add	430.69	
For Anodized Finish, Add	574.25	
For Kynar® Standard Colors Finish, Add	789.59	
08 91 16 00-0111 EA 54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,921.01	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	165.47	
For Clear Lacquer Finish, Add	330.94	
For Baked Enamel Standard Colors, Add	496.41	
For Anodized Finish, Add	661.88	
For Kynar® Standard Colors Finish, Add	910.09	
08 91 16 00-0112 EA 54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,130.07	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	184.98	
For Clear Lacquer Finish, Add	369.95	
For Baked Enamel Standard Colors, Add	554.93	
For Anodized Finish, Add	739.90	
For Kynar® Standard Colors Finish, Add	1,017.37	
08 91 16 00-0113 EA 54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,407.16	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	210.58	
For Clear Lacquer Finish, Add	421.17	
For Baked Enamel Standard Colors, Add	631.75	
For Anodized Finish, Add	842.33	
For Kynar® Standard Colors Finish, Add	1,158.21	
08 91 16 00-0114 EA 54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,676.86	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	235.45	
For Clear Lacquer Finish, Add	470.90	
For Baked Enamel Standard Colors, Add	706.35	
For Anodized Finish, Add	941.80	
For Kynar® Standard Colors Finish, Add	1,294.98	
08 91 16 00-0115 EA 54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,879.99	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	253.66	
For Clear Lacquer Finish, Add	507.32	
For Baked Enamel Standard Colors, Add	760.98	
For Anodized Finish, Add	1,014.64	
For Kynar® Standard Colors Finish, Add	1,395.14	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0116 EA 54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,080.36	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	271.60	
For Clear Lacquer Finish, Add	543.19	
For Baked Enamel Standard Colors, Add	814.79	
For Anodized Finish, Add	1,086.38	
For Kynar® Standard Colors Finish, Add	1,493.77	
08 91 16 00-0117 EA 54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,271.86	189.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	289.34	
For Clear Lacquer Finish, Add	578.69	
For Baked Enamel Standard Colors, Add	868.03	
For Anodized Finish, Add	1,157.37	
For Kynar® Standard Colors Finish, Add	1,591.39	
08 91 16 00-0118 EA 54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,524.38	196.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	313.19	
For Clear Lacquer Finish, Add	626.39	
For Baked Enamel Standard Colors, Add	939.58	
For Anodized Finish, Add	1,252.78	
For Kynar® Standard Colors Finish, Add	1,722.57	
08 91 16 00-0119 EA 54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,735.30	203.23
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	332.88	
For Clear Lacquer Finish, Add	665.77	
For Baked Enamel Standard Colors, Add	998.65	
For Anodized Finish, Add	1,331.54	
For Kynar® Standard Colors Finish, Add	1,830.86	
08 91 16 00-0120 EA 54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	4,006.31	210.24
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	358.58	
For Clear Lacquer Finish, Add	717.17	
For Baked Enamel Standard Colors, Add	1,075.75	
For Anodized Finish, Add	1,434.33	
For Kynar® Standard Colors Finish, Add	1,972.21	
08 91 16 00-0121 EA 54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,211.28	220.75
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	376.98	
For Clear Lacquer Finish, Add	753.96	
For Baked Enamel Standard Colors, Add	1,130.93	
For Anodized Finish, Add	1,507.91	
For Kynar® Standard Colors Finish, Add	2,073.38	
08 91 16 00-0122 EA 60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	1,043.76	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	86.16	
For Clear Lacquer Finish, Add	172.31	
For Baked Enamel Standard Colors, Add	258.47	
For Anodized Finish, Add	344.62	
For Kynar® Standard Colors Finish, Add	473.86	
08 91 16 00-0123 EA 60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,341.87	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	111.76	
For Clear Lacquer Finish, Add	223.52	
For Baked Enamel Standard Colors, Add	335.29	
For Anodized Finish, Add	447.05	
For Kynar® Standard Colors Finish, Add	614.69	
08 91 16 00-0124 EA 60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,561.27	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	130.90	
For Clear Lacquer Finish, Add	261.80	
For Baked Enamel Standard Colors, Add	392.69	
For Anodized Finish, Add	523.59	
For Kynar® Standard Colors Finish, Add	719.94	
08 91 16 00-0125 EA 60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,797.14	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	153.08	
For Clear Lacquer Finish, Add	306.17	
For Baked Enamel Standard Colors, Add	459.25	
For Anodized Finish, Add	612.34	
For Kynar® Standard Colors Finish, Add	841.96	
08 91 16 00-0126 EA 60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	2,045.57	143.66
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	175.83	
For Clear Lacquer Finish, Add	351.65	
For Baked Enamel Standard Colors, Add	527.48	
For Anodized Finish, Add	703.30	
For Kynar® Standard Colors Finish, Add	967.04	
08 91 16 00-0127 EA 60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,266.65	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	196.53	
For Clear Lacquer Finish, Add	393.06	
For Baked Enamel Standard Colors, Add	589.60	
For Anodized Finish, Add	786.13	
For Kynar® Standard Colors Finish, Add	1,080.93	

08 Openings**08 90 Louvers and Vents****08 91 Louvers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0128 EA 60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,563.15	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	224.08	
For Clear Lacquer Finish, Add	448.16	
For Baked Enamel Standard Colors, Add	672.24	
For Anodized Finish, Add	896.32	
For Kynar® Standard Colors Finish, Add	1,232.43	
08 91 16 00-0129 EA 60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,840.24	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	249.69	
For Clear Lacquer Finish, Add	499.37	
For Baked Enamel Standard Colors, Add	749.06	
For Anodized Finish, Add	998.74	
For Kynar® Standard Colors Finish, Add	1,373.27	
08 91 16 00-0130 EA 60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	3,057.25	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	269.28	
For Clear Lacquer Finish, Add	538.57	
For Baked Enamel Standard Colors, Add	807.85	
For Anodized Finish, Add	1,077.14	
For Kynar® Standard Colors Finish, Add	1,481.06	
08 91 16 00-0131 EA 60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,270.54	192.72
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	288.51	
For Clear Lacquer Finish, Add	577.02	
For Baked Enamel Standard Colors, Add	865.53	
For Anodized Finish, Add	1,154.04	
For Kynar® Standard Colors Finish, Add	1,586.81	
08 91 16 00-0132 EA 60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,474.07	199.73
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	307.46	
For Clear Lacquer Finish, Add	614.92	
For Baked Enamel Standard Colors, Add	922.39	
For Anodized Finish, Add	1,229.85	
For Kynar® Standard Colors Finish, Add	1,691.04	
08 91 16 00-0133 EA 60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,747.85	206.73
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	333.44	
For Clear Lacquer Finish, Add	666.88	
For Baked Enamel Standard Colors, Add	1,000.31	
For Anodized Finish, Add	1,333.75	
For Kynar® Standard Colors Finish, Add	1,833.91	
08 91 16 00-0134 EA 60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,968.93	213.74
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	354.15	
For Clear Lacquer Finish, Add	708.29	
For Baked Enamel Standard Colors, Add	1,062.44	
For Anodized Finish, Add	1,416.58	
For Kynar® Standard Colors Finish, Add	1,947.80	
08 91 16 00-0135 EA 60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	4,253.81	220.75
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	381.23	
For Clear Lacquer Finish, Add	762.46	
For Baked Enamel Standard Colors, Add	1,143.69	
For Anodized Finish, Add	1,524.92	
For Kynar® Standard Colors Finish, Add	2,096.77	
08 91 16 00-0136 EA 60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,463.80	227.76
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	400.83	
For Clear Lacquer Finish, Add	801.66	
For Baked Enamel Standard Colors, Add	1,202.49	
For Anodized Finish, Add	1,603.32	
For Kynar® Standard Colors Finish, Add	2,204.56	

08 91 16 00-0137 Adjustable Intake Wall Louvers Operators (08 91 16)

08 91 16 00-0138 EA 5' Chain Actuator For Adjustable Intake Louver.....	269.75	35.04
08 91 16 00-0139 EA Panel Crank For Adjustable Intake Louver.....	562.34	14.02

08 91 19 Fixed Louvers (08 91)**08 91 19 00-0001 Fixed Intake Wall Louvers (08 91 19)**

08 91 19 00-0002 EA 12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	342.24	31.54
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	27.92	
For Clear Lacquer Finish, Add	55.83	
For Baked Enamel Standard Colors, Add	83.75	
For Anodized Finish, Add	111.67	
For Kynar® Standard Colors Finish, Add	153.54	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0003	EA	12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	407.11	38.55
			<i>For Flange Frame, Add</i>	33.00	
			<i>For Clear Lacquer Finish, Add</i>	66.00	
			<i>For Baked Enamel Standard Colors, Add</i>	99.01	
			<i>For Anodized Finish, Add</i>	132.01	
			<i>For Kynar® Standard Colors Finish, Add</i>	181.51	
08 91	19 00-0004	EA	12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	472.89	45.55
			<i>For Flange Frame, Add</i>	38.18	
			<i>For Clear Lacquer Finish, Add</i>	76.36	
			<i>For Baked Enamel Standard Colors, Add</i>	114.54	
			<i>For Anodized Finish, Add</i>	152.72	
			<i>For Kynar® Standard Colors Finish, Add</i>	209.98	
08 91	19 00-0005	EA	12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	554.38	52.56
			<i>For Flange Frame, Add</i>	44.93	
			<i>For Clear Lacquer Finish, Add</i>	89.85	
			<i>For Baked Enamel Standard Colors, Add</i>	134.78	
			<i>For Anodized Finish, Add</i>	179.71	
			<i>For Kynar® Standard Colors Finish, Add</i>	247.10	
08 91	19 00-0006	EA	12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	623.86	59.57
			<i>For Flange Frame, Add</i>	50.47	
			<i>For Clear Lacquer Finish, Add</i>	100.95	
			<i>For Baked Enamel Standard Colors, Add</i>	151.42	
			<i>For Anodized Finish, Add</i>	201.89	
			<i>For Kynar® Standard Colors Finish, Add</i>	277.60	
08 91	19 00-0007	EA	12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	734.02	66.58
			<i>For Flange Frame, Add</i>	60.09	
			<i>For Clear Lacquer Finish, Add</i>	120.17	
			<i>For Baked Enamel Standard Colors, Add</i>	180.26	
			<i>For Anodized Finish, Add</i>	240.35	
			<i>For Kynar® Standard Colors Finish, Add</i>	330.48	
08 91	19 00-0008	EA	12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	796.10	73.59
			<i>For Flange Frame, Add</i>	64.89	
			<i>For Clear Lacquer Finish, Add</i>	129.79	
			<i>For Baked Enamel Standard Colors, Add</i>	194.68	
			<i>For Anodized Finish, Add</i>	259.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	356.92	
08 91	19 00-0009	EA	12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	891.09	84.10
			<i>For Flange Frame, Add</i>	72.29	
			<i>For Clear Lacquer Finish, Add</i>	144.58	
			<i>For Baked Enamel Standard Colors, Add</i>	216.87	
			<i>For Anodized Finish, Add</i>	289.16	
			<i>For Kynar® Standard Colors Finish, Add</i>	397.60	
08 91	19 00-0010	EA	12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	948.54	91.10
			<i>For Flange Frame, Add</i>	76.63	
			<i>For Clear Lacquer Finish, Add</i>	153.27	
			<i>For Baked Enamel Standard Colors, Add</i>	229.90	
			<i>For Anodized Finish, Add</i>	306.54	
			<i>For Kynar® Standard Colors Finish, Add</i>	421.49	
08 91	19 00-0011	EA	12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,025.42	98.11
			<i>For Flange Frame, Add</i>	82.92	
			<i>For Clear Lacquer Finish, Add</i>	165.84	
			<i>For Baked Enamel Standard Colors, Add</i>	248.76	
			<i>For Anodized Finish, Add</i>	331.68	
			<i>For Kynar® Standard Colors Finish, Add</i>	456.06	
08 91	19 00-0012	EA	12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,093.06	105.11
			<i>For Flange Frame, Add</i>	88.28	
			<i>For Clear Lacquer Finish, Add</i>	176.56	
			<i>For Baked Enamel Standard Colors, Add</i>	264.85	
			<i>For Anodized Finish, Add</i>	353.13	
			<i>For Kynar® Standard Colors Finish, Add</i>	465.55	
08 91	19 00-0013	EA	12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,172.70	112.12
			<i>For Flange Frame, Add</i>	94.85	
			<i>For Clear Lacquer Finish, Add</i>	189.69	
			<i>For Baked Enamel Standard Colors, Add</i>	284.54	
			<i>For Anodized Finish, Add</i>	379.38	
			<i>For Kynar® Standard Colors Finish, Add</i>	521.65	
08 91	19 00-0014	EA	12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,247.74	119.13
			<i>For Flange Frame, Add</i>	100.95	
			<i>For Clear Lacquer Finish, Add</i>	201.89	
			<i>For Baked Enamel Standard Colors, Add</i>	302.84	
			<i>For Anodized Finish, Add</i>	403.79	
			<i>For Kynar® Standard Colors Finish, Add</i>	555.21	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0015 EA 12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,316.84	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.75	
For Clear Lacquer Finish, Add	211.51	
For Baked Enamel Standard Colors, Add	317.26	
For Anodized Finish, Add	423.02	
For Kynar® Standard Colors Finish, Add	581.65	
08 91 19 00-0016 EA 12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,407.18	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 19 00-0017 EA 18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	398.79	38.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	32.17	
For Clear Lacquer Finish, Add	64.34	
For Baked Enamel Standard Colors, Add	96.51	
For Anodized Finish, Add	128.68	
For Kynar® Standard Colors Finish, Add	176.94	
08 91 19 00-0018 EA 18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	479.90	49.06
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	38.18	
For Clear Lacquer Finish, Add	76.36	
For Baked Enamel Standard Colors, Add	114.54	
For Anodized Finish, Add	152.72	
For Kynar® Standard Colors Finish, Add	209.98	
08 91 19 00-0019 EA 18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	555.84	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	44.37	
For Clear Lacquer Finish, Add	88.74	
For Baked Enamel Standard Colors, Add	133.12	
For Anodized Finish, Add	177.49	
For Kynar® Standard Colors Finish, Add	244.05	
08 91 19 00-0020 EA 18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	696.65	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	55.65	
For Clear Lacquer Finish, Add	111.30	
For Baked Enamel Standard Colors, Add	166.95	
For Anodized Finish, Add	222.60	
For Kynar® Standard Colors Finish, Add	306.08	
08 91 19 00-0021 EA 18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	797.57	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0022 EA 18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	887.39	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	71.92	
For Clear Lacquer Finish, Add	143.84	
For Baked Enamel Standard Colors, Add	215.76	
For Anodized Finish, Add	287.68	
For Kynar® Standard Colors Finish, Add	395.56	
08 91 19 00-0023 EA 18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	952.24	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.00	
For Clear Lacquer Finish, Add	154.01	
For Baked Enamel Standard Colors, Add	231.01	
For Anodized Finish, Add	308.02	
For Kynar® Standard Colors Finish, Add	423.52	
08 91 19 00-0024 EA 18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,060.17	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	85.69	
For Clear Lacquer Finish, Add	171.39	
For Baked Enamel Standard Colors, Add	257.08	
For Anodized Finish, Add	342.78	
For Kynar® Standard Colors Finish, Add	471.32	
08 91 19 00-0025 EA 18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,137.58	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	91.33	
For Clear Lacquer Finish, Add	182.67	
For Baked Enamel Standard Colors, Add	274.00	
For Anodized Finish, Add	365.33	
For Kynar® Standard Colors Finish, Add	502.33	
08 91 19 00-0026 EA 18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,234.79	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0027 EA 18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,309.83	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.75	
For Clear Lacquer Finish, Add	211.51	
For Baked Enamel Standard Colors, Add	317.26	
For Anodized Finish, Add	423.02	
For Kynar® Standard Colors Finish, Add	581.65	
08 91 19 00-0028 EA 18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,393.17	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 19 00-0029 EA 18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,480.21	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	119.99	
For Clear Lacquer Finish, Add	239.98	
For Baked Enamel Standard Colors, Add	359.97	
For Anodized Finish, Add	479.96	
For Kynar® Standard Colors Finish, Add	659.95	
08 91 19 00-0030 EA 18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,559.47	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	125.81	
For Clear Lacquer Finish, Add	251.63	
For Baked Enamel Standard Colors, Add	377.44	
For Anodized Finish, Add	503.26	
For Kynar® Standard Colors Finish, Add	691.98	
08 91 19 00-0031 EA 18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,667.39	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	134.50	
For Clear Lacquer Finish, Add	269.01	
For Baked Enamel Standard Colors, Add	403.51	
For Anodized Finish, Add	538.01	
For Kynar® Standard Colors Finish, Add	739.77	
08 91 19 00-0032 EA 24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	461.79	45.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	37.07	
For Clear Lacquer Finish, Add	74.14	
For Baked Enamel Standard Colors, Add	111.21	
For Anodized Finish, Add	148.28	
For Kynar® Standard Colors Finish, Add	203.88	
08 91 19 00-0033 EA 24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	551.22	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	43.91	
For Clear Lacquer Finish, Add	87.82	
For Baked Enamel Standard Colors, Add	131.73	
For Anodized Finish, Add	175.64	
For Kynar® Standard Colors Finish, Add	241.51	
08 91 19 00-0034 EA 24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	681.33	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	54.82	
For Clear Lacquer Finish, Add	109.64	
For Baked Enamel Standard Colors, Add	164.45	
For Anodized Finish, Add	219.27	
For Kynar® Standard Colors Finish, Add	301.50	
08 91 19 00-0035 EA 24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	804.58	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0036 EA 24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	918.43	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	74.32	
For Clear Lacquer Finish, Add	148.65	
For Baked Enamel Standard Colors, Add	222.97	
For Anodized Finish, Add	297.29	
For Kynar® Standard Colors Finish, Add	408.78	
08 91 19 00-0037 EA 24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,023.96	94.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	83.48	
For Clear Lacquer Finish, Add	166.95	
For Baked Enamel Standard Colors, Add	250.43	
For Anodized Finish, Add	333.90	
For Kynar® Standard Colors Finish, Add	459.11	
08 91 19 00-0038 EA 24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,114.32	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	90.41	
For Clear Lacquer Finish, Add	180.82	
For Baked Enamel Standard Colors, Add	271.22	
For Anodized Finish, Add	361.63	
For Kynar® Standard Colors Finish, Add	497.24	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0039	EA	24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,234.79	119.13
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	99.65	
		For Clear Lacquer Finish, Add	199.30	
		For Baked Enamel Standard Colors, Add	298.96	
		For Anodized Finish, Add	398.61	
		For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0040	EA	24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,313.52	126.14
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	106.12	
		For Clear Lacquer Finish, Add	212.25	
		For Baked Enamel Standard Colors, Add	318.37	
		For Anodized Finish, Add	424.49	
		For Kynar® Standard Colors Finish, Add	583.68	
08 91 19 00-0041	EA	24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,444.15	140.15
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	116.38	
		For Clear Lacquer Finish, Add	232.77	
		For Baked Enamel Standard Colors, Add	349.15	
		For Anodized Finish, Add	465.54	
		For Kynar® Standard Colors Finish, Add	640.11	
08 91 19 00-0042	EA	24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,525.66	147.16
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	123.13	
		For Clear Lacquer Finish, Add	246.27	
		For Baked Enamel Standard Colors, Add	369.40	
		For Anodized Finish, Add	492.53	
		For Kynar® Standard Colors Finish, Add	677.23	
08 91 19 00-0043	EA	24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,630.26	154.17
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	132.19	
		For Clear Lacquer Finish, Add	264.38	
		For Baked Enamel Standard Colors, Add	396.58	
		For Anodized Finish, Add	528.77	
		For Kynar® Standard Colors Finish, Add	727.06	
08 91 19 00-0044	EA	24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,733.02	161.18
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	141.07	
		For Clear Lacquer Finish, Add	282.13	
		For Baked Enamel Standard Colors, Add	423.20	
		For Anodized Finish, Add	564.26	
		For Kynar® Standard Colors Finish, Add	775.86	
08 91 19 00-0045	EA	24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,814.13	171.69
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	147.08	
		For Clear Lacquer Finish, Add	294.15	
		For Baked Enamel Standard Colors, Add	441.23	
		For Anodized Finish, Add	588.30	
		For Kynar® Standard Colors Finish, Add	808.91	
08 91 19 00-0046	EA	24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,944.24	182.20
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	157.98	
		For Clear Lacquer Finish, Add	315.97	
		For Baked Enamel Standard Colors, Add	473.95	
		For Anodized Finish, Add	631.93	
		For Kynar® Standard Colors Finish, Add	868.91	
08 91 19 00-0047	EA	30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	518.33	52.56
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	41.32	
		For Clear Lacquer Finish, Add	82.64	
		For Baked Enamel Standard Colors, Add	123.97	
		For Anodized Finish, Add	165.29	
		For Kynar® Standard Colors Finish, Add	227.27	
08 91 19 00-0048	EA	30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	671.69	70.08
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	53.15	
		For Clear Lacquer Finish, Add	106.31	
		For Baked Enamel Standard Colors, Add	159.46	
		For Anodized Finish, Add	212.62	
		For Kynar® Standard Colors Finish, Add	292.35	
08 91 19 00-0049	EA	30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	783.31	80.59
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	62.21	
		For Clear Lacquer Finish, Add	124.43	
		For Baked Enamel Standard Colors, Add	186.64	
		For Anodized Finish, Add	248.85	
		For Kynar® Standard Colors Finish, Add	342.17	
08 91 19 00-0050	EA	30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	912.49	91.10
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	73.03	
		For Clear Lacquer Finish, Add	146.06	
		For Baked Enamel Standard Colors, Add	219.09	
		For Anodized Finish, Add	292.12	
		For Kynar® Standard Colors Finish, Add	401.66	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0051 EA 30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,048.54	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	85.23	
For Clear Lacquer Finish, Add	170.46	
For Baked Enamel Standard Colors, Add	255.70	
For Anodized Finish, Add	340.93	
For Kynar® Standard Colors Finish, Add	468.78	
08 91 19 00-0052 EA 30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,165.70	108.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	94.85	
For Clear Lacquer Finish, Add	189.69	
For Baked Enamel Standard Colors, Add	284.54	
For Anodized Finish, Add	379.38	
For Kynar® Standard Colors Finish, Add	521.65	
08 91 19 00-0053 EA 30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,252.74	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	102.15	
For Clear Lacquer Finish, Add	204.30	
For Baked Enamel Standard Colors, Add	306.44	
For Anodized Finish, Add	408.59	
For Kynar® Standard Colors Finish, Add	561.81	
08 91 19 00-0054 EA 30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,375.46	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.32	
For Clear Lacquer Finish, Add	224.63	
For Baked Enamel Standard Colors, Add	336.95	
For Anodized Finish, Add	449.27	
For Kynar® Standard Colors Finish, Add	617.74	
08 91 19 00-0055 EA 30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,472.67	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	120.64	
For Clear Lacquer Finish, Add	241.27	
For Baked Enamel Standard Colors, Add	361.91	
For Anodized Finish, Add	482.55	
For Kynar® Standard Colors Finish, Add	663.50	
08 91 19 00-0056 EA 30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,622.72	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	132.84	
For Clear Lacquer Finish, Add	265.68	
For Baked Enamel Standard Colors, Add	398.52	
For Anodized Finish, Add	531.36	
For Kynar® Standard Colors Finish, Add	730.61	
08 91 19 00-0057 EA 30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,719.54	157.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	140.42	
For Clear Lacquer Finish, Add	280.84	
For Baked Enamel Standard Colors, Add	421.26	
For Anodized Finish, Add	561.68	
For Kynar® Standard Colors Finish, Add	772.30	
08 91 19 00-0058 EA 30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,830.63	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	150.13	
For Clear Lacquer Finish, Add	300.25	
For Baked Enamel Standard Colors, Add	450.38	
For Anodized Finish, Add	600.50	
For Kynar® Standard Colors Finish, Add	825.69	
08 91 19 00-0059 EA 30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,940.78	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	159.74	
For Clear Lacquer Finish, Add	319.48	
For Baked Enamel Standard Colors, Add	479.22	
For Anodized Finish, Add	638.96	
For Kynar® Standard Colors Finish, Add	878.57	
08 91 19 00-0060 EA 30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,035.76	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	167.14	
For Clear Lacquer Finish, Add	334.27	
For Baked Enamel Standard Colors, Add	501.41	
For Anodized Finish, Add	668.54	
For Kynar® Standard Colors Finish, Add	919.24	
08 91 19 00-0061 EA 30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,182.50	192.72
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	179.71	
For Clear Lacquer Finish, Add	359.41	
For Baked Enamel Standard Colors, Add	539.12	
For Anodized Finish, Add	718.83	
For Kynar® Standard Colors Finish, Add	988.39	
08 91 19 00-0062 EA 36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	575.79	59.57
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	45.67	
For Clear Lacquer Finish, Add	91.33	
For Baked Enamel Standard Colors, Add	137.00	
For Anodized Finish, Add	182.66	
For Kynar® Standard Colors Finish, Add	251.16	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0063	EA	36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	755.04	77.09
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	60.09	
			For Clear Lacquer Finish, Add	120.17	
			For Baked Enamel Standard Colors, Add	180.26	
			For Anodized Finish, Add	240.35	
			For Kynar® Standard Colors Finish, Add	330.48	
08 91	19 00-0064	EA	36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	872.21	87.60
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	69.70	
			For Clear Lacquer Finish, Add	139.40	
			For Baked Enamel Standard Colors, Add	209.10	
			For Anodized Finish, Add	278.80	
			For Kynar® Standard Colors Finish, Add	383.36	
08 91	19 00-0065	EA	36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,010.63	98.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	81.44	
			For Clear Lacquer Finish, Add	162.88	
			For Baked Enamel Standard Colors, Add	244.32	
			For Anodized Finish, Add	325.76	
			For Kynar® Standard Colors Finish, Add	447.93	
08 91	19 00-0066	EA	36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,164.26	106.52
			Note: Includes bird screen.		
			For Flange Frame, Add	95.12	
			For Clear Lacquer Finish, Add	190.25	
			For Baked Enamel Standard Colors, Add	285.37	
			For Anodized Finish, Add	380.49	
			For Kynar® Standard Colors Finish, Add	523.18	
08 91	19 00-0067	EA	36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,285.10	115.63
			Note: Includes bird screen.		
			For Flange Frame, Add	105.38	
			For Clear Lacquer Finish, Add	210.77	
			For Baked Enamel Standard Colors, Add	316.15	
			For Anodized Finish, Add	421.54	
			For Kynar® Standard Colors Finish, Add	579.61	
08 91	19 00-0068	EA	36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,388.79	122.63
			Note: Includes bird screen.		
			For Flange Frame, Add	114.35	
			For Clear Lacquer Finish, Add	228.70	
			For Baked Enamel Standard Colors, Add	343.05	
			For Anodized Finish, Add	457.40	
			For Kynar® Standard Colors Finish, Add	628.93	
08 91	19 00-0069	EA	36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,528.13	133.15
			Note: Includes bird screen.		
			For Flange Frame, Add	126.18	
			For Clear Lacquer Finish, Add	252.37	
			For Baked Enamel Standard Colors, Add	378.55	
			For Anodized Finish, Add	504.73	
			For Kynar® Standard Colors Finish, Add	694.01	
08 91	19 00-0070	EA	36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,635.12	143.66
			Note: Includes bird screen.		
			For Flange Frame, Add	134.78	
			For Clear Lacquer Finish, Add	269.56	
			For Baked Enamel Standard Colors, Add	404.34	
			For Anodized Finish, Add	539.12	
			For Kynar® Standard Colors Finish, Add	741.29	
08 91	19 00-0071	EA	36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,801.28	154.17
			Note: Includes bird screen.		
			For Flange Frame, Add	149.29	
			For Clear Lacquer Finish, Add	298.59	
			For Baked Enamel Standard Colors, Add	447.88	
			For Anodized Finish, Add	597.18	
			For Kynar® Standard Colors Finish, Add	821.12	
08 91	19 00-0072	EA	36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,912.90	164.68
			Note: Includes bird screen.		
			For Flange Frame, Add	158.35	
			For Clear Lacquer Finish, Add	316.71	
			For Baked Enamel Standard Colors, Add	475.06	
			For Anodized Finish, Add	633.41	
			For Kynar® Standard Colors Finish, Add	870.94	
08 91	19 00-0073	EA	36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,031.37	171.69
			Note: Includes bird screen.		
			For Flange Frame, Add	168.80	
			For Clear Lacquer Finish, Add	337.60	
			For Baked Enamel Standard Colors, Add	506.40	
			For Anodized Finish, Add	675.20	
			For Kynar® Standard Colors Finish, Add	928.39	
08 91	19 00-0074	EA	36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,154.47	178.70
			Note: Includes bird screen.		
			For Flange Frame, Add	179.71	
			For Clear Lacquer Finish, Add	359.41	
			For Baked Enamel Standard Colors, Add	539.12	
			For Anodized Finish, Add	718.83	
			For Kynar® Standard Colors Finish, Add	988.39	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0075 EA 36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,262.40	189.21
Note: Includes bird screen.		
For Flange Frame, Add	188.40	
For Clear Lacquer Finish, Add	376.79	
For Baked Enamel Standard Colors, Add	565.19	
For Anodized Finish, Add	753.59	
For Kynar® Standard Colors Finish, Add	1,036.18	
08 91 19 00-0076 EA 36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,427.63	199.73
Note: Includes bird screen.		
For Flange Frame, Add	202.82	
For Clear Lacquer Finish, Add	405.64	
For Baked Enamel Standard Colors, Add	608.45	
For Anodized Finish, Add	811.27	
For Kynar® Standard Colors Finish, Add	1,115.50	
08 91 19 00-0077 EA 42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	668.39	66.58
Note: Includes bird screen.		
For Flange Frame, Add	53.52	
For Clear Lacquer Finish, Add	107.05	
For Baked Enamel Standard Colors, Add	160.57	
For Anodized Finish, Add	214.10	
For Kynar® Standard Colors Finish, Add	294.38	
08 91 19 00-0078 EA 42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	820.83	84.10
Note: Includes bird screen.		
For Flange Frame, Add	65.26	
For Clear Lacquer Finish, Add	130.53	
For Baked Enamel Standard Colors, Add	195.79	
For Anodized Finish, Add	261.06	
For Kynar® Standard Colors Finish, Add	358.95	
08 91 19 00-0079 EA 42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	950.01	94.60
Note: Includes bird screen.		
For Flange Frame, Add	76.08	
For Clear Lacquer Finish, Add	152.16	
For Baked Enamel Standard Colors, Add	228.24	
For Anodized Finish, Add	304.32	
For Kynar® Standard Colors Finish, Add	418.44	
08 91 19 00-0080 EA 42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,110.24	108.62
Note: Includes bird screen.		
For Flange Frame, Add	89.30	
For Clear Lacquer Finish, Add	178.60	
For Baked Enamel Standard Colors, Add	267.90	
For Anodized Finish, Add	357.20	
For Kynar® Standard Colors Finish, Add	491.14	
08 91 19 00-0081 EA 42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,275.85	115.63
Note: Includes bird screen.		
For Flange Frame, Add	104.46	
For Clear Lacquer Finish, Add	208.92	
For Baked Enamel Standard Colors, Add	313.38	
For Anodized Finish, Add	417.84	
For Kynar® Standard Colors Finish, Add	574.52	
08 91 19 00-0082 EA 42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,409.12	122.63
Note: Includes bird screen.		
For Flange Frame, Add	116.38	
For Clear Lacquer Finish, Add	232.77	
For Baked Enamel Standard Colors, Add	349.15	
For Anodized Finish, Add	465.54	
For Kynar® Standard Colors Finish, Add	640.11	
08 91 19 00-0083 EA 42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,524.83	129.64
Note: Includes bird screen.		
For Flange Frame, Add	126.55	
For Clear Lacquer Finish, Add	253.11	
For Baked Enamel Standard Colors, Add	379.66	
For Anodized Finish, Add	506.21	
For Kynar® Standard Colors Finish, Add	696.04	
08 91 19 00-0084 EA 42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,664.17	140.15
Note: Includes bird screen.		
For Flange Frame, Add	138.39	
For Clear Lacquer Finish, Add	276.77	
For Baked Enamel Standard Colors, Add	415.16	
For Anodized Finish, Add	553.54	
For Kynar® Standard Colors Finish, Add	761.12	
08 91 19 00-0085 EA 42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,784.10	150.67
Note: Includes bird screen.		
For Flange Frame, Add	148.28	
For Clear Lacquer Finish, Add	296.55	
For Baked Enamel Standard Colors, Add	444.83	
For Anodized Finish, Add	593.11	
For Kynar® Standard Colors Finish, Add	815.52	
08 91 19 00-0086 EA 42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,967.83	161.18
Note: Includes bird screen.		
For Flange Frame, Add	164.55	
For Clear Lacquer Finish, Add	329.09	
For Baked Enamel Standard Colors, Add	493.64	
For Anodized Finish, Add	658.19	
For Kynar® Standard Colors Finish, Add	905.01	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0087	EA	42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,087.76	171.69
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	174.44	
			<i>For Clear Lacquer Finish, Add</i>	348.88	
			<i>For Baked Enamel Standard Colors, Add</i>	523.31	
			<i>For Anodized Finish, Add</i>	697.75	
			<i>For Kynar® Standard Colors Finish, Add</i>	959.41	
08 91	19 00-0088	EA	42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,221.03	178.70
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	186.36	
			<i>For Clear Lacquer Finish, Add</i>	372.73	
			<i>For Baked Enamel Standard Colors, Add</i>	559.09	
			<i>For Anodized Finish, Add</i>	745.45	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,025.00	
08 91	19 00-0089	EA	42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,355.23	185.71
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	198.38	
			<i>For Clear Lacquer Finish, Add</i>	396.76	
			<i>For Baked Enamel Standard Colors, Add</i>	595.14	
			<i>For Anodized Finish, Add</i>	793.52	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,091.10	
08 91	19 00-0090	EA	42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,481.63	196.22
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	208.92	
			<i>For Clear Lacquer Finish, Add</i>	417.84	
			<i>For Baked Enamel Standard Colors, Add</i>	626.76	
			<i>For Anodized Finish, Add</i>	835.68	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,149.05	
08 91	19 00-0091	EA	42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,658.89	206.73
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	224.54	
			<i>For Clear Lacquer Finish, Add</i>	449.08	
			<i>For Baked Enamel Standard Colors, Add</i>	673.63	
			<i>For Anodized Finish, Add</i>	898.17	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,234.98	
08 91	19 00-0092	EA	48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	731.39	73.59
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	58.42	
			<i>For Clear Lacquer Finish, Add</i>	116.85	
			<i>For Baked Enamel Standard Colors, Add</i>	175.27	
			<i>For Anodized Finish, Add</i>	233.69	
			<i>For Kynar® Standard Colors Finish, Add</i>	321.33	
08 91	19 00-0093	EA	48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	896.78	91.10
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	71.46	
			<i>For Clear Lacquer Finish, Add</i>	142.92	
			<i>For Baked Enamel Standard Colors, Add</i>	214.37	
			<i>For Anodized Finish, Add</i>	285.83	
			<i>For Kynar® Standard Colors Finish, Add</i>	393.02	
08 91	19 00-0094	EA	48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,049.61	105.11
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	83.94	
			<i>For Clear Lacquer Finish, Add</i>	167.87	
			<i>For Baked Enamel Standard Colors, Add</i>	251.81	
			<i>For Anodized Finish, Add</i>	335.75	
			<i>For Kynar® Standard Colors Finish, Add</i>	461.65	
08 91	19 00-0095	EA	48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,205.60	115.63
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	97.43	
			<i>For Clear Lacquer Finish, Add</i>	194.87	
			<i>For Baked Enamel Standard Colors, Add</i>	292.30	
			<i>For Anodized Finish, Add</i>	389.74	
			<i>For Kynar® Standard Colors Finish, Add</i>	535.89	
08 91	19 00-0096	EA	48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,394.33	122.63
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	114.91	
			<i>For Clear Lacquer Finish, Add</i>	229.81	
			<i>For Baked Enamel Standard Colors, Add</i>	344.72	
			<i>For Anodized Finish, Add</i>	459.62	
			<i>For Kynar® Standard Colors Finish, Add</i>	631.98	
08 91	19 00-0097	EA	48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,547.94	129.64
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	128.86	
			<i>For Clear Lacquer Finish, Add</i>	257.73	
			<i>For Baked Enamel Standard Colors, Add</i>	386.59	
			<i>For Anodized Finish, Add</i>	515.46	
			<i>For Kynar® Standard Colors Finish, Add</i>	708.75	
08 91	19 00-0098	EA	48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,677.11	140.15
			Note: Includes bird screen.		
			<i>For Flange Frame, Add</i>	139.68	
			<i>For Clear Lacquer Finish, Add</i>	279.36	
			<i>For Baked Enamel Standard Colors, Add</i>	419.04	
			<i>For Anodized Finish, Add</i>	558.72	
			<i>For Kynar® Standard Colors Finish, Add</i>	768.24	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0099 EA 48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,877.47	150.67
Note: Includes bird screen.		
For Flange Frame, Add	157.61	
For Clear Lacquer Finish, Add	315.23	
For Baked Enamel Standard Colors, Add	472.84	
For Anodized Finish, Add	630.46	
For Kynar® Standard Colors Finish, Add	866.88	
08 91 19 00-0100 EA 48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,967.83	161.18
Note: Includes bird screen.		
For Flange Frame, Add	164.55	
For Clear Lacquer Finish, Add	329.09	
For Baked Enamel Standard Colors, Add	493.64	
For Anodized Finish, Add	658.19	
For Kynar® Standard Colors Finish, Add	905.01	
08 91 19 00-0101 EA 48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,163.56	171.69
Note: Includes bird screen.		
For Flange Frame, Add	182.02	
For Clear Lacquer Finish, Add	364.04	
For Baked Enamel Standard Colors, Add	546.05	
For Anodized Finish, Add	728.07	
For Kynar® Standard Colors Finish, Add	1,001.10	
08 91 19 00-0102 EA 48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,301.07	182.20
Note: Includes bird screen.		
For Flange Frame, Add	193.67	
For Clear Lacquer Finish, Add	387.33	
For Baked Enamel Standard Colors, Add	581.00	
For Anodized Finish, Add	774.66	
For Kynar® Standard Colors Finish, Add	1,065.16	
08 91 19 00-0103 EA 48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,449.13	189.21
Note: Includes bird screen.		
For Flange Frame, Add	207.07	
For Clear Lacquer Finish, Add	414.14	
For Baked Enamel Standard Colors, Add	621.21	
For Anodized Finish, Add	828.28	
For Kynar® Standard Colors Finish, Add	1,138.89	
08 91 19 00-0104 EA 48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,597.18	196.22
Note: Includes bird screen.		
For Flange Frame, Add	220.47	
For Clear Lacquer Finish, Add	440.95	
For Baked Enamel Standard Colors, Add	661.42	
For Anodized Finish, Add	881.90	
For Kynar® Standard Colors Finish, Add	1,212.61	
08 91 19 00-0105 EA 48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,721.21	203.23
Note: Includes bird screen.		
For Flange Frame, Add	231.48	
For Clear Lacquer Finish, Add	462.95	
For Baked Enamel Standard Colors, Add	694.43	
For Anodized Finish, Add	925.90	
For Kynar® Standard Colors Finish, Add	1,273.11	
08 91 19 00-0106 EA 48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,924.34	213.74
Note: Includes bird screen.		
For Flange Frame, Add	249.69	
For Clear Lacquer Finish, Add	499.37	
For Baked Enamel Standard Colors, Add	749.06	
For Anodized Finish, Add	998.74	
For Kynar® Standard Colors Finish, Add	1,373.27	
08 91 19 00-0107 EA 54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	811.59	84.10
Note: Includes bird screen.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0108 EA 54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	995.46	101.61
Note: Includes bird screen.		
For Flange Frame, Add	79.22	
For Clear Lacquer Finish, Add	158.45	
For Baked Enamel Standard Colors, Add	237.67	
For Anodized Finish, Add	316.89	
For Kynar® Standard Colors Finish, Add	435.73	
08 91 19 00-0109 EA 54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,165.46	119.13
Note: Includes bird screen.		
For Flange Frame, Add	92.72	
For Clear Lacquer Finish, Add	185.44	
For Baked Enamel Standard Colors, Add	278.16	
For Anodized Finish, Add	370.88	
For Kynar® Standard Colors Finish, Add	509.95	
08 91 19 00-0110 EA 54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,330.16	126.14
Note: Includes bird screen.		
For Flange Frame, Add	107.79	
For Clear Lacquer Finish, Add	215.57	
For Baked Enamel Standard Colors, Add	323.36	
For Anodized Finish, Add	431.15	
For Kynar® Standard Colors Finish, Add	592.83	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0111 EA 54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,554.94	133.15
Note: Includes bird screen.		
For Flange Frame, Add	128.86	
For Clear Lacquer Finish, Add	257.73	
For Baked Enamel Standard Colors, Add	386.59	
For Anodized Finish, Add	515.46	
For Kynar® Standard Colors Finish, Add	708.75	
08 91 19 00-0112 EA 54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,712.24	140.15
Note: Includes bird screen.		
For Flange Frame, Add	143.19	
For Clear Lacquer Finish, Add	286.39	
For Baked Enamel Standard Colors, Add	429.58	
For Anodized Finish, Add	572.77	
For Kynar® Standard Colors Finish, Add	787.56	
08 91 19 00-0113 EA 54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,862.68	150.67
Note: Includes bird screen.		
For Flange Frame, Add	156.14	
For Clear Lacquer Finish, Add	312.27	
For Baked Enamel Standard Colors, Add	468.41	
For Anodized Finish, Add	624.54	
For Kynar® Standard Colors Finish, Add	858.74	
08 91 19 00-0114 EA 54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,080.61	161.18
Note: Includes bird screen.		
For Flange Frame, Add	175.83	
For Clear Lacquer Finish, Add	351.65	
For Baked Enamel Standard Colors, Add	527.48	
For Anodized Finish, Add	703.30	
For Kynar® Standard Colors Finish, Add	967.04	
08 91 19 00-0115 EA 54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,235.67	171.69
Note: Includes bird screen.		
For Flange Frame, Add	189.23	
For Clear Lacquer Finish, Add	378.46	
For Baked Enamel Standard Colors, Add	567.69	
For Anodized Finish, Add	756.92	
For Kynar® Standard Colors Finish, Add	1,040.76	
08 91 19 00-0116 EA 54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,463.77	182.20
Note: Includes bird screen.		
For Flange Frame, Add	209.94	
For Clear Lacquer Finish, Add	419.87	
For Baked Enamel Standard Colors, Add	629.81	
For Anodized Finish, Add	839.74	
For Kynar® Standard Colors Finish, Add	1,154.65	
08 91 19 00-0117 EA 54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,610.90	189.21
Note: Includes bird screen.		
For Flange Frame, Add	223.25	
For Clear Lacquer Finish, Add	446.49	
For Baked Enamel Standard Colors, Add	669.74	
For Anodized Finish, Add	892.99	
For Kynar® Standard Colors Finish, Add	1,227.86	
08 91 19 00-0118 EA 54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,778.37	196.22
Note: Includes bird screen.		
For Flange Frame, Add	238.59	
For Clear Lacquer Finish, Add	477.19	
For Baked Enamel Standard Colors, Add	715.78	
For Anodized Finish, Add	954.37	
For Kynar® Standard Colors Finish, Add	1,312.26	
08 91 19 00-0119 EA 54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,939.37	203.23
Note: Includes bird screen.		
For Flange Frame, Add	253.29	
For Clear Lacquer Finish, Add	506.58	
For Baked Enamel Standard Colors, Add	759.87	
For Anodized Finish, Add	1,013.16	
For Kynar® Standard Colors Finish, Add	1,393.10	
08 91 19 00-0120 EA 54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,073.57	210.24
Note: Includes bird screen.		
For Flange Frame, Add	265.31	
For Clear Lacquer Finish, Add	530.62	
For Baked Enamel Standard Colors, Add	795.93	
For Anodized Finish, Add	1,061.24	
For Kynar® Standard Colors Finish, Add	1,459.20	
08 91 19 00-0121 EA 54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,309.05	220.75
Note: Includes bird screen.		
For Flange Frame, Add	286.76	
For Clear Lacquer Finish, Add	573.51	
For Baked Enamel Standard Colors, Add	860.27	
For Anodized Finish, Add	1,147.02	
For Kynar® Standard Colors Finish, Add	1,577.15	
08 91 19 00-0122 EA 60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	872.74	91.10
Note: Includes bird screen.		
For Flange Frame, Add	69.05	
For Clear Lacquer Finish, Add	138.11	
For Baked Enamel Standard Colors, Add	207.16	
For Anodized Finish, Add	276.22	
For Kynar® Standard Colors Finish, Add	379.80	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0123 EA 60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,076.57	112.12
Note: Includes bird screen.		
For Flange Frame, Add	85.23	
For Clear Lacquer Finish, Add	170.46	
For Baked Enamel Standard Colors, Add	255.70	
For Anodized Finish, Add	340.93	
For Kynar® Standard Colors Finish, Add	468.78	
08 91 19 00-0124 EA 60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,248.81	126.14
Note: Includes bird screen.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0125 EA 60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,438.46	133.15
Note: Includes bird screen.		
For Flange Frame, Add	117.22	
For Clear Lacquer Finish, Add	234.43	
For Baked Enamel Standard Colors, Add	351.65	
For Anodized Finish, Add	468.86	
For Kynar® Standard Colors Finish, Add	644.69	
08 91 19 00-0126 EA 60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,674.87	143.66
Note: Includes bird screen.		
For Flange Frame, Add	138.76	
For Clear Lacquer Finish, Add	277.51	
For Baked Enamel Standard Colors, Add	416.27	
For Anodized Finish, Add	555.02	
For Kynar® Standard Colors Finish, Add	763.15	
08 91 19 00-0127 EA 60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,850.66	150.67
Note: Includes bird screen.		
For Flange Frame, Add	154.93	
For Clear Lacquer Finish, Add	309.87	
For Baked Enamel Standard Colors, Add	464.80	
For Anodized Finish, Add	619.73	
For Kynar® Standard Colors Finish, Add	852.13	
08 91 19 00-0128 EA 60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,007.58	161.18
Note: Includes bird screen.		
For Flange Frame, Add	168.52	
For Clear Lacquer Finish, Add	337.04	
For Baked Enamel Standard Colors, Add	505.57	
For Anodized Finish, Add	674.09	
For Kynar® Standard Colors Finish, Add	926.87	
08 91 19 00-0129 EA 60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,240.29	171.69
Note: Includes bird screen.		
For Flange Frame, Add	189.69	
For Clear Lacquer Finish, Add	379.38	
For Baked Enamel Standard Colors, Add	569.07	
For Anodized Finish, Add	758.76	
For Kynar® Standard Colors Finish, Add	1,043.30	
08 91 19 00-0130 EA 60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,406.45	182.20
Note: Includes bird screen.		
For Flange Frame, Add	204.20	
For Clear Lacquer Finish, Add	408.41	
For Baked Enamel Standard Colors, Add	612.61	
For Anodized Finish, Add	816.82	
For Kynar® Standard Colors Finish, Add	1,123.12	
08 91 19 00-0131 EA 60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,653.03	192.72
Note: Includes bird screen.		
For Flange Frame, Add	226.76	
For Clear Lacquer Finish, Add	453.52	
For Baked Enamel Standard Colors, Add	680.28	
For Anodized Finish, Add	907.04	
For Kynar® Standard Colors Finish, Add	1,247.18	
08 91 19 00-0132 EA 60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,809.41	199.73
Note: Includes bird screen.		
For Flange Frame, Add	241.00	
For Clear Lacquer Finish, Add	481.99	
For Baked Enamel Standard Colors, Add	722.99	
For Anodized Finish, Add	963.98	
For Kynar® Standard Colors Finish, Add	1,325.48	
08 91 19 00-0133 EA 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,987.06	206.73
Note: Includes bird screen.		
For Flange Frame, Add	257.36	
For Clear Lacquer Finish, Add	514.72	
For Baked Enamel Standard Colors, Add	772.08	
For Anodized Finish, Add	1,029.44	
For Kynar® Standard Colors Finish, Add	1,415.47	
08 91 19 00-0134 EA 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,160.99	213.74
Note: Includes bird screen.		
For Flange Frame, Add	273.35	
For Clear Lacquer Finish, Add	546.70	
For Baked Enamel Standard Colors, Add	820.05	
For Anodized Finish, Add	1,093.40	
For Kynar® Standard Colors Finish, Add	1,503.43	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0135 EA 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,309.05	220.75
Note: Includes bird screen.		
For Flange Frame, Add	286.76	
For Clear Lacquer Finish, Add	573.51	
For Baked Enamel Standard Colors, Add	860.27	
For Anodized Finish, Add	1,147.02	
For Kynar® Standard Colors Finish, Add	1,577.15	
08 91 19 00-0136 EA 60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,553.24	227.76
Note: Includes bird screen.		
For Flange Frame, Add	309.77	
For Clear Lacquer Finish, Add	619.55	
For Baked Enamel Standard Colors, Add	929.32	
For Anodized Finish, Add	1,239.09	
For Kynar® Standard Colors Finish, Add	1,703.75	
08 91 19 00-0137 EA 66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,002.31	98.11
Note: Includes bird screen.		
For Flange Frame, Add	80.61	
For Clear Lacquer Finish, Add	161.22	
For Baked Enamel Standard Colors, Add	241.83	
For Anodized Finish, Add	322.44	
For Kynar® Standard Colors Finish, Add	443.35	
08 91 19 00-0138 EA 66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,238.49	119.13
Note: Includes bird screen.		
For Flange Frame, Add	100.02	
For Clear Lacquer Finish, Add	200.04	
For Baked Enamel Standard Colors, Add	300.07	
For Anodized Finish, Add	400.09	
For Kynar® Standard Colors Finish, Add	550.12	
08 91 19 00-0139 EA 66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,444.15	140.15
Note: Includes bird screen.		
For Flange Frame, Add	116.38	
For Clear Lacquer Finish, Add	232.77	
For Baked Enamel Standard Colors, Add	349.15	
For Anodized Finish, Add	465.54	
For Kynar® Standard Colors Finish, Add	640.11	
08 91 19 00-0140 EA 66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,650.45	147.16
Note: Includes bird screen.		
For Flange Frame, Add	135.61	
For Clear Lacquer Finish, Add	271.22	
For Baked Enamel Standard Colors, Add	406.84	
For Anodized Finish, Add	542.45	
For Kynar® Standard Colors Finish, Add	745.87	
08 91 19 00-0141 EA 66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,923.30	154.17
Note: Includes bird screen.		
For Flange Frame, Add	161.50	
For Clear Lacquer Finish, Add	322.99	
For Baked Enamel Standard Colors, Add	484.49	
For Anodized Finish, Add	645.98	
For Kynar® Standard Colors Finish, Add	888.23	
08 91 19 00-0142 EA 66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,114.81	161.18
Note: Includes bird screen.		
For Flange Frame, Add	179.25	
For Clear Lacquer Finish, Add	358.49	
For Baked Enamel Standard Colors, Add	537.74	
For Anodized Finish, Add	716.98	
For Kynar® Standard Colors Finish, Add	985.85	
08 91 19 00-0143 EA 66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,301.30	171.69
Note: Includes bird screen.		
For Flange Frame, Add	195.79	
For Clear Lacquer Finish, Add	391.58	
For Baked Enamel Standard Colors, Add	587.38	
For Anodized Finish, Add	783.17	
For Kynar® Standard Colors Finish, Add	1,076.86	
08 91 19 00-0144 EA 66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,519.23	182.20
Note: Includes bird screen.		
For Flange Frame, Add	215.48	
For Clear Lacquer Finish, Add	430.96	
For Baked Enamel Standard Colors, Add	646.45	
For Anodized Finish, Add	861.93	
For Kynar® Standard Colors Finish, Add	1,185.15	
08 91 19 00-0145 EA 66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,704.80	192.72
Note: Includes bird screen.		
For Flange Frame, Add	231.94	
For Clear Lacquer Finish, Add	463.87	
For Baked Enamel Standard Colors, Add	695.81	
For Anodized Finish, Add	927.75	
For Kynar® Standard Colors Finish, Add	1,275.65	
08 91 19 00-0146 EA 66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,988.90	206.73
Note: Includes bird screen.		
For Flange Frame, Add	257.54	
For Clear Lacquer Finish, Add	515.09	
For Baked Enamel Standard Colors, Add	772.63	
For Anodized Finish, Add	1,030.17	
For Kynar® Standard Colors Finish, Add	1,416.49	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0147 EA 66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,168.00	217.25
Note: Includes bird screen.		
For Flange Frame, Add	273.35	
For Clear Lacquer Finish, Add	546.70	
For Baked Enamel Standard Colors, Add	820.05	
For Anodized Finish, Add	1,093.40	
For Kynar® Standard Colors Finish, Add	1,503.43	
08 91 19 00-0148 EA 66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,355.80	224.25
Note: Includes bird screen.		
For Flange Frame, Add	290.73	
For Clear Lacquer Finish, Add	581.46	
For Baked Enamel Standard Colors, Add	872.19	
For Anodized Finish, Add	1,162.92	
For Kynar® Standard Colors Finish, Add	1,599.02	
08 91 19 00-0149 EA 66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,547.30	231.26
Note: Includes bird screen.		
For Flange Frame, Add	308.48	
For Clear Lacquer Finish, Add	616.96	
For Baked Enamel Standard Colors, Add	925.44	
For Anodized Finish, Add	1,233.92	
For Kynar® Standard Colors Finish, Add	1,696.63	
08 91 19 00-0150 EA 66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,713.85	238.27
Note: Includes bird screen.		
For Flange Frame, Add	323.73	
For Clear Lacquer Finish, Add	647.46	
For Baked Enamel Standard Colors, Add	971.20	
For Anodized Finish, Add	1,294.93	
For Kynar® Standard Colors Finish, Add	1,780.53	
08 91 19 00-0151 EA 66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,985.78	245.28
Note: Includes bird screen.		
For Flange Frame, Add	349.52	
For Clear Lacquer Finish, Add	699.05	
For Baked Enamel Standard Colors, Add	1,048.57	
For Anodized Finish, Add	1,398.09	
For Kynar® Standard Colors Finish, Add	1,922.38	
08 91 19 00-0152 EA 72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,058.86	105.11
Note: Includes bird screen.		
For Flange Frame, Add	84.86	
For Clear Lacquer Finish, Add	169.72	
For Baked Enamel Standard Colors, Add	254.59	
For Anodized Finish, Add	339.45	
For Kynar® Standard Colors Finish, Add	466.74	
08 91 19 00-0153 EA 72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,306.13	126.14
Note: Includes bird screen.		
For Flange Frame, Add	105.38	
For Clear Lacquer Finish, Add	210.77	
For Baked Enamel Standard Colors, Add	316.15	
For Anodized Finish, Add	421.54	
For Kynar® Standard Colors Finish, Add	579.61	
08 91 19 00-0154 EA 72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,521.96	147.16
Note: Includes bird screen.		
For Flange Frame, Add	122.76	
For Clear Lacquer Finish, Add	245.53	
For Baked Enamel Standard Colors, Add	368.29	
For Anodized Finish, Add	491.05	
For Kynar® Standard Colors Finish, Add	675.20	
08 91 19 00-0155 EA 72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,747.28	157.68
Note: Includes bird screen.		
For Flange Frame, Add	143.19	
For Clear Lacquer Finish, Add	286.39	
For Baked Enamel Standard Colors, Add	429.58	
For Anodized Finish, Add	572.77	
For Kynar® Standard Colors Finish, Add	787.56	
08 91 19 00-0156 EA 72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,039.55	164.68
Note: Includes bird screen.		
For Flange Frame, Add	171.02	
For Clear Lacquer Finish, Add	342.04	
For Baked Enamel Standard Colors, Add	513.05	
For Anodized Finish, Add	684.07	
For Kynar® Standard Colors Finish, Add	940.60	
08 91 19 00-0157 EA 72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,241.21	171.69
Note: Includes bird screen.		
For Flange Frame, Add	189.78	
For Clear Lacquer Finish, Add	379.57	
For Baked Enamel Standard Colors, Add	569.35	
For Anodized Finish, Add	759.13	
For Kynar® Standard Colors Finish, Add	1,043.81	
08 91 19 00-0158 EA 72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,439.73	182.20
Note: Includes bird screen.		
For Flange Frame, Add	207.53	
For Clear Lacquer Finish, Add	415.06	
For Baked Enamel Standard Colors, Add	622.60	
For Anodized Finish, Add	830.13	
For Kynar® Standard Colors Finish, Add	1,141.43	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0159 EA 72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,662.67	189.21
Note: Includes bird screen.		
For Flange Frame, Add	228.42	
For Clear Lacquer Finish, Add	456.85	
For Baked Enamel Standard Colors, Add	685.27	
For Anodized Finish, Add	913.70	
For Kynar® Standard Colors Finish, Add	1,256.33	
08 91 19 00-0160 EA 72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,856.56	199.73
Note: Includes bird screen.		
For Flange Frame, Add	245.71	
For Clear Lacquer Finish, Add	491.42	
For Baked Enamel Standard Colors, Add	737.13	
For Anodized Finish, Add	982.84	
For Kynar® Standard Colors Finish, Add	1,351.41	
08 91 19 00-0161 EA 72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,168.00	217.25
Note: Includes bird screen.		
For Flange Frame, Add	273.35	
For Clear Lacquer Finish, Add	546.70	
For Baked Enamel Standard Colors, Add	820.05	
For Anodized Finish, Add	1,093.40	
For Kynar® Standard Colors Finish, Add	1,503.43	
08 91 19 00-0162 EA 72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,364.66	227.76
Note: Includes bird screen.		
For Flange Frame, Add	290.92	
For Clear Lacquer Finish, Add	581.83	
For Baked Enamel Standard Colors, Add	872.75	
For Anodized Finish, Add	1,163.66	
For Kynar® Standard Colors Finish, Add	1,600.03	
08 91 19 00-0163 EA 72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,558.01	234.77
Note: Includes bird screen.		
For Flange Frame, Add	308.85	
For Clear Lacquer Finish, Add	617.70	
For Baked Enamel Standard Colors, Add	926.55	
For Anodized Finish, Add	1,235.40	
For Kynar® Standard Colors Finish, Add	1,698.67	
08 91 19 00-0164 EA 72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,754.14	241.77
Note: Includes bird screen.		
For Flange Frame, Add	327.06	
For Clear Lacquer Finish, Add	654.12	
For Baked Enamel Standard Colors, Add	981.18	
For Anodized Finish, Add	1,308.24	
For Kynar® Standard Colors Finish, Add	1,798.83	
08 91 19 00-0165 EA 72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,938.25	248.78
Note: Includes bird screen.		
For Flange Frame, Add	344.07	
For Clear Lacquer Finish, Add	688.14	
For Baked Enamel Standard Colors, Add	1,032.21	
For Anodized Finish, Add	1,376.28	
For Kynar® Standard Colors Finish, Add	1,892.38	
08 91 19 00-0166 EA 72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	4,227.74	255.79
Note: Includes bird screen.		
For Flange Frame, Add	371.62	
For Clear Lacquer Finish, Add	743.23	
For Baked Enamel Standard Colors, Add	1,114.85	
For Anodized Finish, Add	1,486.47	
For Kynar® Standard Colors Finish, Add	2,043.89	
08 91 19 00-0167 EA 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,126.48	112.12
Note: Includes bird screen.		
For Flange Frame, Add	90.22	
For Clear Lacquer Finish, Add	180.45	
For Baked Enamel Standard Colors, Add	270.67	
For Anodized Finish, Add	360.89	
For Kynar® Standard Colors Finish, Add	496.23	
08 91 19 00-0168 EA 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,380.23	133.15
Note: Includes bird screen.		
For Flange Frame, Add	111.39	
For Clear Lacquer Finish, Add	222.79	
For Baked Enamel Standard Colors, Add	334.18	
For Anodized Finish, Add	445.57	
For Kynar® Standard Colors Finish, Add	612.66	
08 91 19 00-0169 EA 78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,600.68	154.17
Note: Includes bird screen.		
For Flange Frame, Add	129.23	
For Clear Lacquer Finish, Add	258.47	
For Baked Enamel Standard Colors, Add	387.70	
For Anodized Finish, Add	516.94	
For Kynar® Standard Colors Finish, Add	710.79	
08 91 19 00-0170 EA 78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,840.80	164.68
Note: Includes bird screen.		
For Flange Frame, Add	151.14	
For Clear Lacquer Finish, Add	302.29	
For Baked Enamel Standard Colors, Add	453.43	
For Anodized Finish, Add	604.57	
For Kynar® Standard Colors Finish, Add	831.29	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0171	EA	78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,149.70 180.63 361.26 541.90 722.53 993.48	171.69
08 91 19 00-0172	EA	78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,359.69 200.23 400.46 600.69 800.92 1,101.26	178.70
08 91 19 00-0173	EA	78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,572.08 219.37 438.73 658.10 877.46 1,206.51	189.21
08 91 19 00-0174	EA	78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,807.95 241.55 483.10 724.65 966.20 1,328.53	196.22
08 91 19 00-0175	EA	78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,015.71 260.22 520.45 780.67 1,040.90 1,431.23	206.73
08 91 19 00-0176	EA	78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,346.56 289.81 579.61 869.42 1,159.22 1,593.93	224.25
08 91 19 00-0177	EA	78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,552.46 308.29 616.59 924.88 1,233.18 1,695.62	234.77
08 91 19 00-0178	EA	78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,767.62 327.71 655.41 983.12 1,310.83 1,802.39	245.28
08 91 19 00-0179	EA	78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,963.74 345.92 691.84 1,037.75 1,383.67 1,902.55	252.29
08 91 19 00-0180	EA	78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,159.87 364.13 728.26 1,092.39 1,456.52 2,002.71	259.30
08 91 19 00-0181	EA	78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,467.86 393.53 787.05 1,180.58 1,574.10 2,164.39	266.30
08 91 19 00-0182	EA	84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,182.10 94.38 188.77 283.15 377.53 519.11	119.13

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0183 EA 84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,446.00	140.15
Note: Includes bird screen.		
For Flange Frame, Add	116.57	
For Clear Lacquer Finish, Add	233.14	
For Baked Enamel Standard Colors, Add	349.71	
For Anodized Finish, Add	466.28	
For Kynar® Standard Colors Finish, Add	641.13	
08 91 19 00-0184 EA 84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,688.65	161.18
Note: Includes bird screen.		
For Flange Frame, Add	136.63	
For Clear Lacquer Finish, Add	273.26	
For Baked Enamel Standard Colors, Add	409.89	
For Anodized Finish, Add	546.52	
For Kynar® Standard Colors Finish, Add	751.46	
08 91 19 00-0185 EA 84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,936.16	171.69
Note: Includes bird screen.		
For Flange Frame, Add	159.28	
For Clear Lacquer Finish, Add	318.56	
For Baked Enamel Standard Colors, Add	477.83	
For Anodized Finish, Add	637.11	
For Kynar® Standard Colors Finish, Add	876.03	
08 91 19 00-0186 EA 84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,264.48	178.70
Note: Includes bird screen.		
For Flange Frame, Add	190.71	
For Clear Lacquer Finish, Add	381.42	
For Baked Enamel Standard Colors, Add	572.12	
For Anodized Finish, Add	762.83	
For Kynar® Standard Colors Finish, Add	1,048.89	
08 91 19 00-0187 EA 84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,486.49	185.71
Note: Includes bird screen.		
For Flange Frame, Add	211.51	
For Clear Lacquer Finish, Add	423.01	
For Baked Enamel Standard Colors, Add	634.52	
For Anodized Finish, Add	846.03	
For Kynar® Standard Colors Finish, Add	1,163.29	
08 91 19 00-0188 EA 84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,703.49	196.22
Note: Includes bird screen.		
For Flange Frame, Add	231.11	
For Clear Lacquer Finish, Add	462.21	
For Baked Enamel Standard Colors, Add	693.32	
For Anodized Finish, Add	924.42	
For Kynar® Standard Colors Finish, Add	1,271.08	
08 91 19 00-0189 EA 84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,957.86	203.23
Note: Includes bird screen.		
For Flange Frame, Add	255.14	
For Clear Lacquer Finish, Add	510.28	
For Baked Enamel Standard Colors, Add	765.42	
For Anodized Finish, Add	1,020.56	
For Kynar® Standard Colors Finish, Add	1,403.27	
08 91 19 00-0190 EA 84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,175.78	213.74
Note: Includes bird screen.		
For Flange Frame, Add	274.83	
For Clear Lacquer Finish, Add	549.66	
For Baked Enamel Standard Colors, Add	824.49	
For Anodized Finish, Add	1,099.32	
For Kynar® Standard Colors Finish, Add	1,511.57	
08 91 19 00-0191 EA 84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,526.04	231.26
Note: Includes bird screen.		
For Flange Frame, Add	306.35	
For Clear Lacquer Finish, Add	612.71	
For Baked Enamel Standard Colors, Add	919.06	
For Anodized Finish, Add	1,225.41	
For Kynar® Standard Colors Finish, Add	1,684.94	
08 91 19 00-0192 EA 84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,739.35	241.77
Note: Includes bird screen.		
For Flange Frame, Add	325.58	
For Clear Lacquer Finish, Add	651.16	
For Baked Enamel Standard Colors, Add	976.74	
For Anodized Finish, Add	1,302.32	
For Kynar® Standard Colors Finish, Add	1,790.70	
08 91 19 00-0193 EA 84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,972.98	252.29
Note: Includes bird screen.		
For Flange Frame, Add	346.84	
For Clear Lacquer Finish, Add	693.68	
For Baked Enamel Standard Colors, Add	1,040.53	
For Anodized Finish, Add	1,387.37	
For Kynar® Standard Colors Finish, Add	1,907.63	
08 91 19 00-0194 EA 84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,220.88	259.30
Note: Includes bird screen.		
For Flange Frame, Add	370.23	
For Clear Lacquer Finish, Add	740.46	
For Baked Enamel Standard Colors, Add	1,110.69	
For Anodized Finish, Add	1,480.92	
For Kynar® Standard Colors Finish, Add	2,036.27	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0195	EA	84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,444.75 391.22 782.43 1,173.65 1,564.86 2,151.68	266.30
08 91	19 00-0196	EA	84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,775.83 422.92 845.84 1,268.77 1,691.69 2,326.07	273.30
08 91	19 00-0197	EA	90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,255.82 99.65 199.30 298.96 398.61 548.09	129.64
08 91	19 00-0198	EA	90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,523.41 122.21 244.42 366.62 488.83 672.14	150.67
08 91	19 00-0199	EA	90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,775.31 143.19 286.39 429.58 572.77 787.56	171.69
08 91	19 00-0200	EA	90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,030.21 166.58 333.16 499.74 666.32 916.19	182.20
08 91	19 00-0201	EA	90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,380.72 200.23 400.46 600.69 800.92 1,101.26	189.21
08 91	19 00-0202	EA	90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,610.12 221.77 443.54 665.30 887.07 1,219.72	196.22
08 91	19 00-0203	EA	90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,829.36 242.29 484.58 726.87 969.16 1,332.60	203.23
08 91	19 00-0204	EA	90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,097.60 267.71 535.42 803.14 1,070.85 1,472.42	210.24
08 91	19 00-0205	EA	90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,326.61 288.51 577.02 865.53 1,154.04 1,586.81	220.75
08 91	19 00-0206	EA	90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,696.28 321.98 643.95 965.93 1,287.90 1,770.86	238.27

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0207 EA 90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,918.84	248.78
Note: Includes bird screen.		
For Flange Frame, Add	342.13	
For Clear Lacquer Finish, Add	684.26	
For Baked Enamel Standard Colors, Add	1,026.38	
For Anodized Finish, Add	1,368.51	
For Kynar® Standard Colors Finish, Add	1,881.70	
08 91 19 00-0208 EA 90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,172.81	259.30
Note: Includes bird screen.		
For Flange Frame, Add	365.42	
For Clear Lacquer Finish, Add	730.85	
For Baked Enamel Standard Colors, Add	1,096.27	
For Anodized Finish, Add	1,461.69	
For Kynar® Standard Colors Finish, Add	2,009.83	
08 91 19 00-0209 EA 90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,435.50	266.30
Note: Includes bird screen.		
For Flange Frame, Add	390.29	
For Clear Lacquer Finish, Add	780.58	
For Baked Enamel Standard Colors, Add	1,170.87	
For Anodized Finish, Add	1,561.16	
For Kynar® Standard Colors Finish, Add	2,146.60	
08 91 19 00-0210 EA 90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,660.82	276.81
Note: Includes bird screen.		
For Flange Frame, Add	410.72	
For Clear Lacquer Finish, Add	821.44	
For Baked Enamel Standard Colors, Add	1,232.16	
For Anodized Finish, Add	1,642.88	
For Kynar® Standard Colors Finish, Add	2,258.96	
08 91 19 00-0211 EA 90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	5,011.33	283.81
Note: Includes bird screen.		
For Flange Frame, Add	444.37	
For Clear Lacquer Finish, Add	888.74	
For Baked Enamel Standard Colors, Add	1,333.11	
For Anodized Finish, Add	1,777.48	
For Kynar® Standard Colors Finish, Add	2,444.03	
08 91 19 00-0212 EA 96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,320.28	140.15
Note: Includes bird screen.		
For Flange Frame, Add	104.00	
For Clear Lacquer Finish, Add	207.99	
For Baked Enamel Standard Colors, Add	311.99	
For Anodized Finish, Add	415.99	
For Kynar® Standard Colors Finish, Add	571.98	
08 91 19 00-0213 EA 96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,597.14	161.18
Note: Includes bird screen.		
For Flange Frame, Add	127.48	
For Clear Lacquer Finish, Add	254.96	
For Baked Enamel Standard Colors, Add	382.43	
For Anodized Finish, Add	509.91	
For Kynar® Standard Colors Finish, Add	701.13	
08 91 19 00-0214 EA 96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,861.05	182.20
Note: Includes bird screen.		
For Flange Frame, Add	149.66	
For Clear Lacquer Finish, Add	299.33	
For Baked Enamel Standard Colors, Add	448.99	
For Anodized Finish, Add	598.66	
For Kynar® Standard Colors Finish, Add	823.15	
08 91 19 00-0215 EA 96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,129.81	192.72
Note: Includes bird screen.		
For Flange Frame, Add	174.44	
For Clear Lacquer Finish, Add	348.88	
For Baked Enamel Standard Colors, Add	523.31	
For Anodized Finish, Add	697.75	
For Kynar® Standard Colors Finish, Add	959.41	
08 91 19 00-0216 EA 96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,491.41	199.73
Note: Includes bird screen.		
For Flange Frame, Add	209.20	
For Clear Lacquer Finish, Add	418.39	
For Baked Enamel Standard Colors, Add	627.59	
For Anodized Finish, Add	836.78	
For Kynar® Standard Colors Finish, Add	1,150.58	
08 91 19 00-0217 EA 96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,758.72	206.73
Note: Includes bird screen.		
For Flange Frame, Add	234.53	
For Clear Lacquer Finish, Add	469.05	
For Baked Enamel Standard Colors, Add	703.58	
For Anodized Finish, Add	938.10	
For Kynar® Standard Colors Finish, Add	1,289.89	
08 91 19 00-0218 EA 96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,991.82	213.74
Note: Includes bird screen.		
For Flange Frame, Add	256.43	
For Clear Lacquer Finish, Add	512.87	
For Baked Enamel Standard Colors, Add	769.30	
For Anodized Finish, Add	1,025.74	
For Kynar® Standard Colors Finish, Add	1,410.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	08 91	19 00-0219	EA	96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,247.11 280.56 561.12 841.68 1,122.24 1,543.09	220.75
	08 91	19 00-0220	EA	96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,483.91 302.84 605.68 908.52 1,211.36 1,665.62	227.76
	08 91	19 00-0221	EA	96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,880.40 338.99 677.97 1,016.96 1,355.94 1,864.42	245.28
	08 91	19 00-0222	EA	96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,115.66 260.41 520.82 781.23 1,041.64 1,432.25	255.79
	08 91	19 00-0223	EA	96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,369.87 383.73 767.45 1,151.18 1,534.91 2,110.50	266.30
	08 91	19 00-0224	EA	96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,641.79 409.52 819.04 1,228.55 1,638.07 2,252.35	273.30
	08 91	19 00-0225	EA	96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,878.21 431.06 862.11 1,293.17 1,724.23 2,370.81	283.81
	08 91	19 00-0226	EA	96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,256.98 466.83 933.66 1,400.50 1,867.33 2,567.58	294.33
	08 91	19 00-0227		Gable Louver Vents <small>(08 91 19)</small> Note: 1" deep, residential/light commercial grade louvers.		
	08 91	19 00-0228		Aluminum Gable Louver Vents <small>(08 91 19 00-0227)</small> Note: Includes screen.		
	08 91	19 00-0229		Rectangular Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
	08 91	19 00-0230	EA	12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	223.37	11.14
	08 91	19 00-0231	EA	12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	244.58	12.79
	08 91	19 00-0232	EA	18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	282.07	14.44
	08 91	19 00-0233	EA	18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	309.17	15.34
	08 91	19 00-0234	EA	24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	352.52	16.25
	08 91	19 00-0235	EA	24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	394.80	19.49
	08 91	19 00-0236	EA	30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	458.21	24.36
	08 91	19 00-0237	EA	30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	511.07	28.43
	08 91	19 00-0238	EA	36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	585.03	34.12
	08 91	19 00-0239	EA	42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	732.99	45.48
	08 91	19 00-0240		Square Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
	08 91	19 00-0241	EA	12" x 12" Square Fixed Aluminum Gable Louver Vent	204.47	10.25
	08 91	19 00-0242	EA	18" x 18" Square Fixed Aluminum Gable Louver Vent	253.33	13.00
	08 91	19 00-0243	EA	24" x 24" Square Fixed Aluminum Gable Louver Vent	317.29	15.33
	08 91	19 00-0244	EA	30" x 30" Square Fixed Aluminum Gable Louver Vent	405.37	20.31
	08 91	19 00-0245	EA	36" x 36" Square Fixed Aluminum Gable Louver Vent	521.63	29.25
	08 91	19 00-0246	EA	42" x 42" Square Fixed Aluminum Gable Louver Vent	658.92	39.78



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0247	EA		48" x 48" Square Fixed Aluminum Gable Louver Vent.....	817.54	51.98
08 91 19 00-0248			Round Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0249	EA		12" Diameter Round Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0250	EA		18" Diameter Round Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0251	EA		24" Diameter Round Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0252	EA		30" Diameter Round Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0253	EA		36" Diameter Round Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0254	EA		42" Diameter Round Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0255			Octagonal Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0256	EA		12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0257	EA		12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	223.37	11.14
08 91 19 00-0258	EA		12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	244.58	12.79
08 91 19 00-0259	EA		18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0260	EA		18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	282.07	14.44
08 91 19 00-0261	EA		18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	309.17	15.34
08 91 19 00-0262	EA		24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0263	EA		24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	352.52	16.25
08 91 19 00-0264	EA		24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	394.80	19.49
08 91 19 00-0265	EA		30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0266	EA		30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	458.21	24.36
08 91 19 00-0267	EA		30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	511.07	28.43
08 91 19 00-0268	EA		36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0269	EA		36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	585.03	34.12
08 91 19 00-0270	EA		36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0271	EA		42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0272	EA		42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	732.99	45.48
08 91 19 00-0273	EA		48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	817.54	51.98
08 91 19 00-0274			Round Top Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0275	EA		12" x 12" Round Top Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0276	EA		12" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	223.37	11.14
08 91 19 00-0277	EA		12" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	244.58	12.79
08 91 19 00-0278	EA		18" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0279	EA		18" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	282.07	14.44
08 91 19 00-0280	EA		18" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	309.17	15.34
08 91 19 00-0281	EA		24" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0282	EA		24" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	352.52	16.25
08 91 19 00-0283	EA		24" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	394.80	19.49
08 91 19 00-0284	EA		30" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0285	EA		30" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	458.21	24.36
08 91 19 00-0286	EA		30" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	511.07	28.43
08 91 19 00-0287	EA		36" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0288	EA		36" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	585.03	34.12
08 91 19 00-0289	EA		36" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0290	EA		42" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0291	EA		42" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	732.99	45.48
08 91 19 00-0292	EA		48" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	817.54	51.98
08 91 19 00-0293			Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0294	EA		36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	423.44	12.79
08 91 19 00-0295	EA		36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	479.89	15.33
08 91 19 00-0296	EA		48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	515.11	16.25
08 91 19 00-0297	EA		48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	589.91	19.49
08 91 19 00-0298	EA		48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	657.39	20.31
08 91 19 00-0299	EA		60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	539.50	24.36
08 91 19 00-0300	EA		60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	633.01	28.43
08 91 19 00-0301	EA		60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	716.74	29.25
08 91 19 00-0302	EA		60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	812.67	34.12
08 91 19 00-0303	EA		72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0304	EA		72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	748.44	39.80
08 91 19 00-0305	EA		72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	863.07	45.48
08 91 19 00-0306	EA		72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	980.14	51.98
08 91 19 00-0307	EA		72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	1,100.96	59.73
08 91 19 00-0308			Vinyl Gable Louver Vents (08 91 19 00-0227)		
			Note: Includes screen.		
08 91 19 00-0309	EA		12" x 12" Square Fixed Vinyl Gable Louver Vent.....	68.34	10.25
08 91 19 00-0310	EA		12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	82.27	11.14
08 91 19 00-0311	EA		18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	112.06	14.44
08 91 19 00-0312	EA		24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	152.59	16.25



Openings	08	08
Louvers and Vents	08 90	
Louvers	08 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0313 EA 18" Diameter Round Fixed Vinyl Gable Louver Vent	108.24	13.00
08 91 19 00-0314 EA 22" Diameter Round Fixed Vinyl Gable Louver Vent	125.17	15.33
08 91 19 00-0315 EA 30" Diameter Round Fixed Vinyl Gable Louver Vent	176.15	20.31
08 91 19 00-0316 EA 36" Diameter Round Fixed Vinyl Gable Louver Vent	257.33	29.25
08 91 19 00-0317 EA 18" x 18" Octagonal Fixed Vinyl Gable Louver Vent	108.24	13.00
08 91 19 00-0318 EA 22" x 22" Octagonal Fixed Vinyl Gable Louver Vent	122.47	14.44
08 91 19 00-0319 EA 27" x 27" Octagonal Fixed Vinyl Gable Louver Vent	157.38	16.25
08 91 19 00-0320 EA 32" x 32" Octagonal Fixed Vinyl Gable Louver Vent	223.83	24.36
08 91 19 00-0321 EA 40" x 40" Octagonal Fixed Vinyl Gable Louver Vent	527.17	38.99
08 91 19 00-0322 EA 14" x 22" Round Top Fixed Vinyl Gable Louver Vent	106.09	12.79
08 91 19 00-0323 EA 22" x 32" Round Top Fixed Vinyl Gable Louver Vent	147.45	16.25
08 91 19 00-0324 EA 34" x 22" Half Round Fixed Vinyl Gable Louver Vent	153.46	19.49
08 91 19 00-0325 EA 52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent	346.97	24.36
08 91 19 00-0326 EA 56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent	346.97	24.36
08 91 19 00-0327 EA 56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent	346.97	24.36
08 91 19 00-0328 EA 62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent	346.97	24.36
08 91 19 00-0329 EA 62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent	346.97	24.36
08 91 19 00-0330 EA 70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent	390.87	38.99
08 91 19 00-0331 EA 70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent	390.87	38.99
08 91 19 00-0332 EA 72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent	390.87	38.99
08 91 19 00-0333 EA 74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent	390.87	38.99

08 95 Vents (08 90)

08 95 13 Soffit Vents (08 95)

08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)

08 95 13 00-0002 LF 2-1/2" Wide Aluminum Soffit Vent	8.17	3.23
08 95 13 00-0003 LF 3" Wide Aluminum Soffit Vent	15.25	6.31
08 95 13 00-0004 EA 4" x 16" Under Eave Vent, Mill Finish	23.25	8.41
08 95 13 00-0005 EA 8" x 16" Under Eave Vent, Mill Finish	23.83	8.41

08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)

08 95 13 00-0007 LF Up To 2" Vinyl Soffit Vent, Perforated, White	6.30	2.69
<i>For Colors, Add</i>	0.10	
08 95 13 00-0008 LF 3" To 4" Vinyl Soffit Vent, Perforated, White	6.15	2.69
<i>For Colors, Add</i>	0.08	

08 95 16 Wall Vents (08 95)

08 95 16 00-0001 Foundation Vents (08 95 16)

08 95 16 00-0002 SI Galvanized Steel Foundation Vent	0.52	0.21
08 95 16 00-0003 SI Aluminum Foundation Vent	0.74	0.21
08 95 16 00-0004 SI Stainless Steel Foundation Vent	0.87	0.21
08 95 16 00-0005 SI Plastic Foundation Vent	0.50	0.21

END OF SECTION 08

08	08	Openings
	08 90	Louvers and Vents
	08 95	Vents



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	41.78
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	43.91
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	48.35
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	51.78
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	56.45
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	72.33
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	93.86
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	110.32
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	126.83
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	64.78
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	68.76
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.14
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	83.69
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	92.57
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	119.86
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	148.73
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	171.59
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	195.40
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	90.96
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	95.34
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	105.41
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	115.64
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	130.67
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	161.03
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	193.90
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	234.74
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	287.14
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	295.65
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	316.41

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Removal And Replacement Of Fixture And/Or Trim ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s).

22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	71.21
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	21.82
22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	34.11

22 Plumbing**22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0005 EA Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line.....	48.19	
22 01 40 81-0006 EA Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line.....	74.45	
22 01 40 81-0007 EA Removal And Replacement Of Shower Head, Polished Chrome	45.02	
22 01 40 81-0008 EA Removal And Replacement Of Shower Arm.....	41.16	
22 01 40 81-0009 EA Removal And Replacement Of Shower Head.....	44.71	
22 01 40 81-0010 EA Removal And Replacement Of Shower Knob.....	39.06	
22 01 40 81-0011 EA Removal And Replacement Of Shower and Tub Control Trim.....	117.89	
Note: Excludes balancing valve.		
22 01 40 81-0012 EA Removal And Replacement Of Sink Basket Strainer	29.21	
22 01 40 81-0013 EA Removal And Replacement Of 1-1/2" Sink Drain Without Stopper.....	16.86	
22 01 40 81-0014 EA Removal And Replacement Of 4-1/2" Sink Drain Without Stopper.....	17.59	
22 01 40 81-0015 EA Removal And Replacement Of 1-1/2" Sink Drain With Stopper.....	16.86	
22 01 40 81-0016 EA Removal And Replacement Of 1" Sink Rubber Stopper	10.55	
22 01 40 81-0017 EA Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8".....	31.19	
22 01 40 81-0018 EA Removal And Replacement Of Sink Trap, Adjustable, 1-1/2".....	48.48	
22 01 40 81-0019 EA Removal And Replacement Of Lavatory Pop-Up Rod.....	28.40	
22 01 40 81-0020 EA Removal And Replacement Of Lavatory Pop-up Drain Stopper.....	35.26	
22 01 40 81-0021 EA Removal And Replacement Of Faucet Handle	38.55	
22 01 40 81-0022 EA Removal And Replacement Of Faucet O-Ring	31.28	
22 01 40 81-0023 EA Removal And Replacement Of 1-1/2" Faucet Hole Cover	21.37	
22 01 40 81-0024 EA Removal And Replacement Of Toilet Ballcock	44.57	
22 01 40 81-0025 EA Removal And Replacement Of Toilet Bowl Ring, Flat Wax.....	8.57	
Note: Excludes removal of toilet.		
22 01 40 81-0026 EA Removal And Replacement Of Toilet Tank.....	171.44	
22 01 40 81-0027 EA Removal And Replacement Of 10" Toilet Bowl.....	222.38	
22 01 40 81-0028 EA Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl.....	236.65	
22 01 40 81-0029 EA Removal And Replacement Of 12" Toilet Bowl.....	250.41	
22 01 40 81-0030 EA Removal And Replacement Of 18", Elongated, Toilet Bowl.....	227.18	
22 01 40 81-0031 EA Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers	28.76	
22 01 40 81-0032 EA Removal And Replacement Of Toilet Flapper With Chain	20.08	
22 01 40 81-0033 EA Removal And Replacement Of Toilet Flush Tank Lever	22.08	
22 01 40 81-0034 EA Removal And Replacement Of Elongated Toilet Seat With Lid	107.30	
22 01 40 81-0035 EA Removal And Replacement Of Elongated Toilet Seat Without Lid.....	91.55	
22 01 40 81-0036 EA Removal And Replacement Of Handicap Toilet Seat, Complete With Rails.....	157.87	
22 01 40 81-0037 EA Removal And Replacement Of Diverter Tub Spout.....	54.97	
22 01 40 81-0038 EA Removal And Replacement Of Tub Spout.....	42.11	
22 01 40 81-0039 EA Removal And Replacement Of 2" Tub Stopper.....	12.72	
22 01 40 81-0040 EA Removal And Replacement Of Tub Waste/Overflow	85.41	
22 01 40 81-0041 EA Removal And Replacement Of Tub Stem Bonnet Assembly	45.65	
22 01 40 81-0042 EA Removal And Replacement Of Faucet Bonnet	49.54	
22 01 40 81-0043 EA Removal And Replacement Of Faucet Diverter Stem.....	31.40	
22 01 40 81-0044 EA Removal And Replacement Of Faucet Diverter Stem And Bonnet.....	41.26	
22 01 40 81-0045 EA Removal And Replacement Of Faucet Spout	45.96	
22 01 40 81-0046 EA Removal And Replacement Of Faucet Stem	34.22	
22 01 40 81-0047 EA Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard.....	179.20	
22 01 40 81-0048 EA Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve	218.59	
22 01 40 81-0049 EA Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve.....	142.98	

22 05 Common Work Results for Plumbing ⁽²²⁾**22 05 13 Common Motor Requirements for Plumbing Equipment** ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 19 Meters and Gages for Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages.

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for valves.

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)**22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves** ^(22 05 23 00-0001)

22 05 23 00-0003 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	172.28	15.50
22 05 23 00-0004 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	196.39	17.61

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	231.44	18.74
22 05 23 00-0007 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	307.01	21.69

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0009 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	208.96	15.50
22 05 23 00-0010 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	221.86	17.61
22 05 23 00-0011 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	251.81	18.74
22 05 23 00-0012 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	337.57	21.69
22 05 23 00-0013 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	739.32	25.63
22 05 23 00-0014 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	885.48	34.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0015 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,141.89	40.20
22 05 23 00-0016 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,322.16	45.38
22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0001)		
22 05 23 00-0018 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,049.78	187.75
22 05 23 00-0019 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,289.61	220.45
22 05 23 00-0020 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,838.51	369.57
22 05 23 00-0021 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,914.80	415.01
22 05 23 00-0022 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,688.46	530.29
22 05 23 00-0023 Emergency Shut-Off Valve With Fusible Link (22 05 23)		
22 05 23 00-0024 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) (22 05 23 00-0023)		
Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
22 05 23 00-0025 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	76.30	22.68
For Work In Restricted Working Space, Add	12.30	
22 05 23 00-0026 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	78.51	23.94
For Work In Restricted Working Space, Add	12.97	
22 05 23 00-0027 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	118.07	22.68
For Work In Restricted Working Space, Add	13.63	
22 05 23 00-0028 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	222.49	30.56
For Work In Restricted Working Space, Add	18.37	
22 05 23 00-0029 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	531.33	37.04
For Work In Restricted Working Space, Add	22.24	
22 05 23 00-0030 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0023)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0031 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	424.14	21.69
22 05 23 00-0032 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	461.65	25.63
22 05 23 00-0033 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	769.67	40.20
22 05 23 00-0034 Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0023)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0035 EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	651.58	187.75
22 05 23 00-0036 EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,022.94	220.45
22 05 23 00-0037 EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	2,279.43	369.57
22 05 29 Hangers and Supports for Plumbing Piping and Equipment (22 05)		
See CSI section 23 05 29 00-0000 for hangers and supports.		
22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment (22 05)		
22 05 48 13 Vibration Controls for Plumbing Piping and Equipment (22 05 48)		
See CSI section 23 05 48 13-0000 for vibration and seismic control.		
22 05 53 Identification for Plumbing Piping and Equipment (22 05)		
See CSI section 23 05 53 00-0000 for identification.		
22 05 76 Facility Drainage Piping Cleanouts (22 05)		
22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover (22 05 76)		
Note: For floor installation.		
22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)		
22 05 76 00-0003 EA 2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	660.67	74.93
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004 EA 3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	719.85	93.94
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0005 EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	897.17	113.52
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,271.10	127.04
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,556.01	137.60
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	756.17	74.93
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	816.77	93.80
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	994.19	113.52
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,368.19	127.04
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,652.99	137.60
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	104.54	23.52
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	113.94	28.17
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	143.72	31.69
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	235.66	35.21
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	348.81	38.73
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	498.93 19.50 22.50	23.52
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	714.73 19.50 22.50	24.65
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	763.58 19.50 22.50	26.06
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	854.32 19.50 22.50	29.58
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	507.75 19.50 22.50	23.52
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	727.72 19.50 22.50	24.65
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	777.47 19.50 22.50	26.06
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	869.84 19.50 22.50	29.58
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	492.82 19.50 22.50	23.52
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	678.65 19.50 22.50	24.65
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	958.81 19.50 22.50	26.06
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,159.98 19.50 22.50	29.58
22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	488.95 18.00 45.00	74.93
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	562.18 18.00 45.00	93.80
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	730.23 18.00 45.00	113.52
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,687.84 18.00 45.00	137.60
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	828.08 18.00 45.00	74.93
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	901.31 18.00 45.00	93.80
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,046.85 18.00 45.00	113.52
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,145.89 18.00 45.00	137.60
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	400.65	61.26
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	447.29	66.90
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	595.64	88.03

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0051	EA		5" Cleanout Tee With Cast Bronze Screw Plug	883.66	104.23
22 05 76 00-0052	EA		6" Cleanout Tee With Cast Bronze Screw Plug	1,484.36	123.23
22 05 76 00-0053			Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054			Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055	EA		1-1/4", 1-1/2" Or 2" Threaded Bronze Plug	82.03	17.61
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0056	EA		2-1/2" Threaded Bronze Plug	97.58	19.16
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0057	EA		3" Threaded Bronze Plug	163.30	21.13
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0058	EA		3-1/2" Threaded Bronze Plug	183.09	24.65
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0059	EA		4" Threaded Bronze Plug	207.11	28.17
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0060	EA		5" Threaded Bronze Plug	288.45	31.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0061	EA		6" Threaded Bronze Plug	420.69	35.21
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0062	EA		8" Threaded Bronze Plug	703.50	38.73
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0063	EA		10" Threaded Bronze Plug	1,007.65	42.26
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0064			Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065	EA		1-1/2" Threaded Brass Plug, Raised Head	38.38	17.60
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0066	EA		2" Threaded Brass Plug, Raised Head	38.93	17.60
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0067	EA		2-1/2" Threaded Brass Plug, Raised Head	42.38	19.16
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0068	EA		3" Threaded Brass Plug, Raised Head	47.81	21.12
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0069	EA		3-1/2" Threaded Brass Plug, Raised Head	56.34	24.65
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0070	EA		4" Threaded Brass Plug, Raised Head	65.88	28.17
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0071	EA		4-1/2" Threaded Brass Plug, Raised Head	70.63	29.67
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0072	EA		5" Threaded Brass Plug, Raised Head	75.73	31.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0073	EA		6" Threaded Brass Plug, Raised Head	96.15	35.21
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0074	EA		1-1/2" Threaded Brass Plug, Countersunk Head	37.95	17.60
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0075	EA		2" Threaded Brass Plug, Countersunk Head	38.55	17.60
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0076	EA		2-1/2" Threaded Brass Plug, Countersunk Head	43.57	19.16
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0077	EA		3" Threaded Brass Plug, Countersunk Head	47.99	21.13
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0078	EA		3-1/2" Threaded Brass Plug, Countersunk Head	55.83	24.65
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0079	EA		4" Threaded Brass Plug, Countersunk Head	65.07	28.17
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0080	EA		5" Threaded Brass Plug, Countersunk Head	75.28	31.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0081	EA		6" Threaded Brass Plug, Countersunk Head	88.98	35.21
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 07 Plumbing Insulation (22)					
22 07 16 Plumbing Equipment Insulation (22 07)					
22 07 16 00-0001 Lavatory Insulation (22 07 16)					
22 07 16 00-0002	EA		Neoprene Insulation Kit For Under Lavatories	292.30	29.55
22 07 19 Plumbing Piping Insulation (22 07)					
22 07 19 00-0001 Fiberglass Pipe Insulation (22 07 19)					
			Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0002			1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.44	2.89
<i>For Single Layer Of Felt Finish, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.62	2.89
<i>For Single Layer Of Felt Finish, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.22	3.02
<i>For Single Layer Of Felt Finish, Add</i>	0.20	
<i>For Work In Restricted Working Space, Add</i>	2.49	
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.57	3.15
<i>For Single Layer Of Felt Finish, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.86	3.15
<i>For Single Layer Of Felt Finish, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.48	3.28
<i>For Single Layer Of Felt Finish, Add</i>	0.25	
<i>For Work In Restricted Working Space, Add</i>	2.72	
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.01	3.41
<i>For Single Layer Of Felt Finish, Add</i>	0.29	
<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.64	3.54
<i>For Single Layer Of Felt Finish, Add</i>	0.33	
<i>For Work In Restricted Working Space, Add</i>	2.86	
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.29	3.81
<i>For Single Layer Of Felt Finish, Add</i>	0.42	
<i>For Work In Restricted Working Space, Add</i>	3.10	
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.84	4.47
<i>For Single Layer Of Felt Finish, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	3.61	
22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.72	3.94
<i>For Single Layer Of Felt Finish, Add</i>	0.20	
<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.00	3.94
<i>For Single Layer Of Felt Finish, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.21	3.94
<i>For Single Layer Of Felt Finish, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	3.29	
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.65	4.07
<i>For Single Layer Of Felt Finish, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.01	4.07
<i>For Single Layer Of Felt Finish, Add</i>	0.29	
<i>For Work In Restricted Working Space, Add</i>	3.38	
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.57	4.21
<i>For Single Layer Of Felt Finish, Add</i>	0.32	
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.34	4.47
<i>For Single Layer Of Felt Finish, Add</i>	0.35	
<i>For Work In Restricted Working Space, Add</i>	3.61	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.09	4.60
<i>For Single Layer Of Felt Finish, Add</i>	0.39	
<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.10	4.86
<i>For Single Layer Of Felt Finish, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.88	5.64
<i>For Single Layer Of Felt Finish, Add</i>	0.62	
<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.61	6.31
<i>For Single Layer Of Felt Finish, Add</i>	0.88	
<i>For Work In Restricted Working Space, Add</i>	5.16	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.14	7.49
<i>For Single Layer Of Felt Finish, Add</i>	1.03	
<i>For Work In Restricted Working Space, Add</i>	6.10	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.60	8.53
<i>For Single Layer Of Felt Finish, Add</i>	1.17	
<i>For Work In Restricted Working Space, Add</i>	7.04	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.19	9.33
<i>For Single Layer Of Felt Finish, Add</i>	1.36	
<i>For Work In Restricted Working Space, Add</i>	7.28	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.17	4.05
<i>For Single Layer Of Felt Finish, Add</i>	0.41	
<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.34	4.05
<i>For Single Layer Of Felt Finish, Add</i>	0.43	
<i>For Work In Restricted Working Space, Add</i>	3.37	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0031	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.22	4.30
			<i>For Single Layer Of Felt Finish, Add</i>	0.45	
			<i>For Work In Restricted Working Space, Add</i>	3.57	
22 07 19 00-0032	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.77	4.39
			<i>For Single Layer Of Felt Finish, Add</i>	0.49	
			<i>For Work In Restricted Working Space, Add</i>	3.64	
22 07 19 00-0033	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.24	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.51	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0034	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.37	4.70
			<i>For Single Layer Of Felt Finish, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	3.91	
22 07 19 00-0035	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.12	4.78
			<i>For Single Layer Of Felt Finish, Add</i>	0.62	
			<i>For Work In Restricted Working Space, Add</i>	3.98	
22 07 19 00-0036	LF		3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.75	4.95
			<i>For Single Layer Of Felt Finish, Add</i>	0.63	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
22 07 19 00-0037	LF		4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.75	5.36
			<i>For Single Layer Of Felt Finish, Add</i>	0.73	
			<i>For Work In Restricted Working Space, Add</i>	4.45	
22 07 19 00-0038	LF		6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.20	6.25
			<i>For Single Layer Of Felt Finish, Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	5.19	
22 07 19 00-0039	LF		8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.16	6.59
			<i>For Single Layer Of Felt Finish, Add</i>	1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0040	LF		10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.34	7.89
			<i>For Single Layer Of Felt Finish, Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0041	LF		12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.04	9.20
			<i>For Single Layer Of Felt Finish, Add</i>	1.43	
			<i>For Work In Restricted Working Space, Add</i>	7.64	
22 07 19 00-0042	LF		14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.63	10.07
			<i>For Single Layer Of Felt Finish, Add</i>	1.65	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 07 19 00-0043			2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044	LF		1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.51	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.65	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0045	LF		3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.71	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0046	LF		1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.32	4.60
			<i>For Single Layer Of Felt Finish, Add</i>	0.72	
			<i>For Work In Restricted Working Space, Add</i>	3.75	
22 07 19 00-0047	LF		1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.86	4.60
			<i>For Single Layer Of Felt Finish, Add</i>	0.75	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0048	LF		1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.42	4.73
			<i>For Single Layer Of Felt Finish, Add</i>	0.80	
			<i>For Work In Restricted Working Space, Add</i>	3.85	
22 07 19 00-0049	LF		2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.19	4.86
			<i>For Single Layer Of Felt Finish, Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0050	LF		2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.24	4.99
			<i>For Single Layer Of Felt Finish, Add</i>	0.89	
			<i>For Work In Restricted Working Space, Add</i>	4.13	
22 07 19 00-0051	LF		3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.38	5.25
			<i>For Single Layer Of Felt Finish, Add</i>	0.96	
			<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0052	LF		4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.49	5.51
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0053	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.18	6.47
			<i>For Single Layer Of Felt Finish, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	5.40	
22 07 19 00-0054	LF		8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.06	6.84
			<i>For Single Layer Of Felt Finish, Add</i>	1.58	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0055	LF		10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.76	8.18
			<i>For Single Layer Of Felt Finish, Add</i>	1.89	
			<i>For Work In Restricted Working Space, Add</i>	6.83	
22 07 19 00-0056	LF		12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.01	9.81
			<i>For Single Layer Of Felt Finish, Add</i>	2.08	
			<i>For Work In Restricted Working Space, Add</i>	8.17	
22 07 19 00-0057	LF		14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.37	10.70
			<i>For Single Layer Of Felt Finish, Add</i>	2.35	
			<i>For Work In Restricted Working Space, Add</i>	11.40	
22 07 19 00-0058	LF		16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	63.47	12.54
			<i>For Single Layer Of Felt Finish, Add</i>	2.67	
			<i>For Work In Restricted Working Space, Add</i>	11.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.16	13.17
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	11.97	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.57	15.05
<i>For Single Layer Of Felt Finish, Add</i>	3.57	
<i>For Work In Restricted Working Space, Add</i>	13.68	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	92.75	18.19
<i>For Single Layer Of Felt Finish, Add</i>	3.95	
<i>For Work In Restricted Working Space, Add</i>	16.53	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.81	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.11	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.97	5.25
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.34	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.61	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	4.37	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.28	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.11	
<i>For Work In Restricted Working Space, Add</i>	4.41	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.33	5.64
<i>For Single Layer Of Felt Finish, Add</i>	1.16	
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.77	5.77
<i>For Single Layer Of Felt Finish, Add</i>	1.25	
<i>For Work In Restricted Working Space, Add</i>	4.75	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.08	6.04
<i>For Single Layer Of Felt Finish, Add</i>	1.33	
<i>For Work In Restricted Working Space, Add</i>	4.91	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.05	6.31
<i>For Single Layer Of Felt Finish, Add</i>	1.55	
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.73	6.70
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.48	8.01
<i>For Single Layer Of Felt Finish, Add</i>	2.79	
<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.79	9.20
<i>For Single Layer Of Felt Finish, Add</i>	3.42	
<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.03	11.43
<i>For Single Layer Of Felt Finish, Add</i>	3.64	
<i>For Work In Restricted Working Space, Add</i>	9.41	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.51	12.61
<i>For Single Layer Of Felt Finish, Add</i>	4.23	
<i>For Work In Restricted Working Space, Add</i>	10.28	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.12	16.02
<i>For Single Layer Of Felt Finish, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	13.13	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	94.64	16.81
<i>For Single Layer Of Felt Finish, Add</i>	5.11	
<i>For Work In Restricted Working Space, Add</i>	13.79	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.45	19.18
<i>For Single Layer Of Felt Finish, Add</i>	5.77	
<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.60	23.16
<i>For Single Layer Of Felt Finish, Add</i>	6.63	
<i>For Work In Restricted Working Space, Add</i>	19.04	
22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.16	5.81
<i>For Single Layer Of Felt Finish, Add</i>	0.99	
<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.48	5.81
<i>For Single Layer Of Felt Finish, Add</i>	1.02	
<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.36	5.86
<i>For Single Layer Of Felt Finish, Add</i>	1.10	
<i>For Work In Restricted Working Space, Add</i>	4.78	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.05	5.90
<i>For Single Layer Of Felt Finish, Add</i>	1.16	
<i>For Work In Restricted Working Space, Add</i>	4.81	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.83	5.97
<i>For Single Layer Of Felt Finish, Add</i>	1.22	
<i>For Work In Restricted Working Space, Add</i>	4.86	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.91	6.19
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	5.04	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.48	6.40
For Single Layer Of Felt Finish, Add	1.38	
For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.94	6.63
For Single Layer Of Felt Finish, Add	1.46	
For Work In Restricted Working Space, Add	5.40	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.23	7.00
For Single Layer Of Felt Finish, Add	1.70	
For Work In Restricted Working Space, Add	5.70	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	40.35	7.95
For Single Layer Of Felt Finish, Add	1.97	
For Work In Restricted Working Space, Add	6.48	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	53.25	8.85
For Single Layer Of Felt Finish, Add	3.06	
For Work In Restricted Working Space, Add	7.22	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	63.48	10.21
For Single Layer Of Felt Finish, Add	3.75	
For Work In Restricted Working Space, Add	8.33	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	72.55	12.70
For Single Layer Of Felt Finish, Add	3.99	
For Work In Restricted Working Space, Add	10.35	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	81.86	13.86
For Single Layer Of Felt Finish, Add	4.64	
For Work In Restricted Working Space, Add	11.30	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	96.83	17.72
For Single Layer Of Felt Finish, Add	5.11	
For Work In Restricted Working Space, Add	14.44	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	103.98	18.61
For Single Layer Of Felt Finish, Add	5.61	
For Work In Restricted Working Space, Add	15.17	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	118.09	21.27
For Single Layer Of Felt Finish, Add	6.33	
For Work In Restricted Working Space, Add	17.34	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	139.11	25.68
For Single Layer Of Felt Finish, Add	7.28	
For Work In Restricted Working Space, Add	20.95	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.16	6.31
For Single Layer Of Felt Finish, Add	1.04	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.53	6.31
For Single Layer Of Felt Finish, Add	1.08	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.79	6.31
For Single Layer Of Felt Finish, Add	1.20	
For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0104 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.52	6.44
For Single Layer Of Felt Finish, Add	1.26	
For Work In Restricted Working Space, Add	5.25	
22 07 19 00-0105 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.42	6.44
For Single Layer Of Felt Finish, Add	1.33	
For Work In Restricted Working Space, Add	5.32	
22 07 19 00-0106 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.53	6.70
For Single Layer Of Felt Finish, Add	1.39	
For Work In Restricted Working Space, Add	5.49	
22 07 19 00-0107 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.27	6.96
For Single Layer Of Felt Finish, Add	1.50	
For Work In Restricted Working Space, Add	5.69	
22 07 19 00-0108 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.77	7.22
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	5.89	
22 07 19 00-0109 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	38.50	7.62
For Single Layer Of Felt Finish, Add	1.86	
For Work In Restricted Working Space, Add	6.23	
22 07 19 00-0110 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	44.05	8.66
For Single Layer Of Felt Finish, Add	2.15	
For Work In Restricted Working Space, Add	7.07	
22 07 19 00-0111 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	58.14	9.59
For Single Layer Of Felt Finish, Add	3.35	
For Work In Restricted Working Space, Add	7.87	
22 07 19 00-0112 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	69.34	11.03
For Single Layer Of Felt Finish, Add	4.10	
For Work In Restricted Working Space, Add	9.08	
22 07 19 00-0113 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	79.23	13.78
For Single Layer Of Felt Finish, Add	4.37	
For Work In Restricted Working Space, Add	11.30	
22 07 19 00-0114 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	89.43	15.10
For Single Layer Of Felt Finish, Add	5.07	
For Work In Restricted Working Space, Add	12.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0115 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.78	19.18
<i>For Single Layer Of Felt Finish, Add</i>	5.59	
<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0116 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	113.56	20.22
<i>For Single Layer Of Felt Finish, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 07 19 00-0117 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	129.00	23.11
<i>For Single Layer Of Felt Finish, Add</i>	6.92	
<i>For Work In Restricted Working Space, Add</i>	18.92	
22 07 19 00-0118 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	151.93	27.84
<i>For Single Layer Of Felt Finish, Add</i>	7.96	
<i>For Work In Restricted Working Space, Add</i>	22.85	
22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0120 LF 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.74	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.21	
<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0121 LF 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.15	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.26	
<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0122 LF 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.33	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.35	
<i>For Work In Restricted Working Space, Add</i>	5.86	
22 07 19 00-0123 LF 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.29	7.22
<i>For Single Layer Of Felt Finish, Add</i>	1.42	
<i>For Work In Restricted Working Space, Add</i>	5.92	
22 07 19 00-0124 LF 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.64	7.49
<i>For Single Layer Of Felt Finish, Add</i>	1.50	
<i>For Work In Restricted Working Space, Add</i>	6.11	
22 07 19 00-0125 LF 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.90	7.75
<i>For Single Layer Of Felt Finish, Add</i>	1.56	
<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0126 LF 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.42	7.75
<i>For Single Layer Of Felt Finish, Add</i>	1.69	
<i>For Work In Restricted Working Space, Add</i>	6.40	
22 07 19 00-0127 LF 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.26	8.14
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	6.63	
22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.27	8.53
<i>For Single Layer Of Felt Finish, Add</i>	2.09	
<i>For Work In Restricted Working Space, Add</i>	7.00	
22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.55	9.72
<i>For Single Layer Of Felt Finish, Add</i>	2.42	
<i>For Work In Restricted Working Space, Add</i>	7.94	
22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.41	10.50
<i>For Single Layer Of Felt Finish, Add</i>	3.77	
<i>For Work In Restricted Working Space, Add</i>	8.86	
22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.03	12.48
<i>For Single Layer Of Felt Finish, Add</i>	4.61	
<i>For Work In Restricted Working Space, Add</i>	10.23	
22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.15	15.49
<i>For Single Layer Of Felt Finish, Add</i>	4.91	
<i>For Work In Restricted Working Space, Add</i>	12.71	
22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	100.63	16.94
<i>For Single Layer Of Felt Finish, Add</i>	5.71	
<i>For Work In Restricted Working Space, Add</i>	13.88	
22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.06	21.67
<i>For Single Layer Of Felt Finish, Add</i>	6.29	
<i>For Work In Restricted Working Space, Add</i>	17.75	
22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	127.69	22.72
<i>For Single Layer Of Felt Finish, Add</i>	6.90	
<i>For Work In Restricted Working Space, Add</i>	18.59	
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	143.40	26.00
<i>For Single Layer Of Felt Finish, Add</i>	7.61	
<i>For Work In Restricted Working Space, Add</i>	21.28	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	170.95	31.39
<i>For Single Layer Of Felt Finish, Add</i>	8.95	
<i>For Work In Restricted Working Space, Add</i>	25.71	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	195.60	37.03
<i>For Single Layer Of Felt Finish, Add</i>	9.93	
<i>For Work In Restricted Working Space, Add</i>	30.30	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	221.14	43.59
<i>For Single Layer Of Felt Finish, Add</i>	10.73	
<i>For Work In Restricted Working Space, Add</i>	35.69	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	250.25	51.48
<i>For Single Layer Of Felt Finish, Add</i>	11.48	
<i>For Work In Restricted Working Space, Add</i>	42.27	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	303.38	65.44
<i>For Single Layer Of Felt Finish, Add</i>	13.04	
<i>For Work In Restricted Working Space, Add</i>	53.75	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	356.52	79.71
<i>For Single Layer Of Felt Finish, Add</i>	14.61	
<i>For Work In Restricted Working Space, Add</i>	65.22	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0143	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	384.11	87.59
			<i>For Single Layer Of Felt Finish, Add</i>	15.17	
			<i>For Work In Restricted Working Space, Add</i>	71.89	
22 07 19 00-0144	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	408.79	94.29
			<i>For Single Layer Of Felt Finish, Add</i>	15.78	
			<i>For Work In Restricted Working Space, Add</i>	77.55	
22 07 19 00-0145			4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0146	LF		1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.75	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0147	LF		3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.23	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.43	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0148	LF		1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.57	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.53	
			<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0149	LF		1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.64	7.77
			<i>For Single Layer Of Felt Finish, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	6.37	
22 07 19 00-0150	LF		1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.13	8.05
			<i>For Single Layer Of Felt Finish, Add</i>	1.71	
			<i>For Work In Restricted Working Space, Add</i>	6.57	
22 07 19 00-0151	LF		2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.53	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.78	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 07 19 00-0152	LF		2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.24	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.92	
			<i>For Work In Restricted Working Space, Add</i>	6.88	
22 07 19 00-0153	LF		3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.27	8.75
			<i>For Single Layer Of Felt Finish, Add</i>	2.05	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0154	LF		4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.77	9.18
			<i>For Single Layer Of Felt Finish, Add</i>	2.38	
			<i>For Work In Restricted Working Space, Add</i>	7.52	
22 07 19 00-0155	LF		6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.71	10.44
			<i>For Single Layer Of Felt Finish, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 07 19 00-0156	LF		8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.57	11.29
			<i>For Single Layer Of Felt Finish, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	9.52	
22 07 19 00-0157	LF		10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	86.63	13.41
			<i>For Single Layer Of Felt Finish, Add</i>	5.25	
			<i>For Work In Restricted Working Space, Add</i>	11.00	
22 07 19 00-0158	LF		12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	98.77	16.66
			<i>For Single Layer Of Felt Finish, Add</i>	5.59	
			<i>For Work In Restricted Working Space, Add</i>	13.66	
22 07 19 00-0159	LF		14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	111.59	18.21
			<i>For Single Layer Of Felt Finish, Add</i>	6.50	
			<i>For Work In Restricted Working Space, Add</i>	14.92	
22 07 19 00-0160	LF		16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.74	23.29
			<i>For Single Layer Of Felt Finish, Add</i>	7.16	
			<i>For Work In Restricted Working Space, Add</i>	19.07	
22 07 19 00-0161	LF		18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	141.40	24.42
			<i>For Single Layer Of Felt Finish, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	19.99	
22 07 19 00-0162	LF		20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	158.69	27.95
			<i>For Single Layer Of Felt Finish, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	22.88	
22 07 19 00-0163	LF		24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	189.12	33.73
			<i>For Single Layer Of Felt Finish, Add</i>	10.18	
			<i>For Work In Restricted Working Space, Add</i>	27.64	
22 07 19 00-0164	LF		26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	216.20	39.81
			<i>For Single Layer Of Felt Finish, Add</i>	11.30	
			<i>For Work In Restricted Working Space, Add</i>	32.58	
22 07 19 00-0165	LF		28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	244.12	46.86
			<i>For Single Layer Of Felt Finish, Add</i>	12.21	
			<i>For Work In Restricted Working Space, Add</i>	38.36	
22 07 19 00-0166	LF		30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	275.87	55.33
			<i>For Single Layer Of Felt Finish, Add</i>	13.06	
			<i>For Work In Restricted Working Space, Add</i>	45.44	
22 07 19 00-0167	LF		36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	333.93	70.35
			<i>For Single Layer Of Felt Finish, Add</i>	14.84	
			<i>For Work In Restricted Working Space, Add</i>	57.78	
22 07 19 00-0168	LF		42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	391.99	85.69
			<i>For Single Layer Of Felt Finish, Add</i>	16.62	
			<i>For Work In Restricted Working Space, Add</i>	70.12	
22 07 19 00-0169	LF		44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	421.97	94.16
			<i>For Single Layer Of Felt Finish, Add</i>	17.26	
			<i>For Work In Restricted Working Space, Add</i>	77.28	
22 07 19 00-0170	LF		46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	448.86	101.35
			<i>For Single Layer Of Felt Finish, Add</i>	17.95	
			<i>For Work In Restricted Working Space, Add</i>	83.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0171				5" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0172	LF			1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.46	8.38
				<i>For Single Layer Of Felt Finish, Add</i>	1.55	
				<i>For Work In Restricted Working Space, Add</i>	6.80	
22 07 19 00-0173	LF			3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.98	8.38
				<i>For Single Layer Of Felt Finish, Add</i>	1.61	
				<i>For Work In Restricted Working Space, Add</i>	6.80	
22 07 19 00-0174	LF			1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.47	8.38
				<i>For Single Layer Of Felt Finish, Add</i>	1.72	
				<i>For Work In Restricted Working Space, Add</i>	6.92	
22 07 19 00-0175	LF			1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.69	8.54
				<i>For Single Layer Of Felt Finish, Add</i>	1.82	
				<i>For Work In Restricted Working Space, Add</i>	7.01	
22 07 19 00-0176	LF			1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.36	8.85
				<i>For Single Layer Of Felt Finish, Add</i>	1.92	
				<i>For Work In Restricted Working Space, Add</i>	7.23	
22 07 19 00-0177	LF			2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.88	9.17
				<i>For Single Layer Of Felt Finish, Add</i>	2.00	
				<i>For Work In Restricted Working Space, Add</i>	7.45	
22 07 19 00-0178	LF			2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.81	9.17
				<i>For Single Layer Of Felt Finish, Add</i>	2.16	
				<i>For Work In Restricted Working Space, Add</i>	7.56	
22 07 19 00-0179	LF			3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.09	9.63
				<i>For Single Layer Of Felt Finish, Add</i>	2.31	
				<i>For Work In Restricted Working Space, Add</i>	7.84	
22 07 19 00-0180	LF			4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.11	10.09
				<i>For Single Layer Of Felt Finish, Add</i>	2.68	
				<i>For Work In Restricted Working Space, Add</i>	8.28	
22 07 19 00-0181	LF			6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.85	11.49
				<i>For Single Layer Of Felt Finish, Add</i>	3.10	
				<i>For Work In Restricted Working Space, Add</i>	9.39	
22 07 19 00-0182	LF			8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.83	12.42
				<i>For Single Layer Of Felt Finish, Add</i>	4.82	
				<i>For Work In Restricted Working Space, Add</i>	10.47	
22 07 19 00-0183	LF			10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.54	14.75
				<i>For Single Layer Of Felt Finish, Add</i>	5.90	
				<i>For Work In Restricted Working Space, Add</i>	12.10	
22 07 19 00-0184	LF			12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	109.99	18.32
				<i>For Single Layer Of Felt Finish, Add</i>	6.29	
				<i>For Work In Restricted Working Space, Add</i>	15.02	
22 07 19 00-0185	LF			14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	124.30	20.03
				<i>For Single Layer Of Felt Finish, Add</i>	7.31	
				<i>For Work In Restricted Working Space, Add</i>	16.41	
22 07 19 00-0186	LF			16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	146.61	25.62
				<i>For Single Layer Of Felt Finish, Add</i>	8.05	
				<i>For Work In Restricted Working Space, Add</i>	20.98	
22 07 19 00-0187	LF			18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.40	26.86
				<i>For Single Layer Of Felt Finish, Add</i>	8.83	
				<i>For Work In Restricted Working Space, Add</i>	21.99	
22 07 19 00-0188	LF			20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	176.62	30.75
				<i>For Single Layer Of Felt Finish, Add</i>	9.74	
				<i>For Work In Restricted Working Space, Add</i>	25.17	
22 07 19 00-0189	LF			24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	210.45	37.11
				<i>For Single Layer Of Felt Finish, Add</i>	11.46	
				<i>For Work In Restricted Working Space, Add</i>	30.41	
22 07 19 00-0190	LF			26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	240.50	43.79
				<i>For Single Layer Of Felt Finish, Add</i>	12.71	
				<i>For Work In Restricted Working Space, Add</i>	35.83	
22 07 19 00-0191	LF			28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	271.44	51.55
				<i>For Single Layer Of Felt Finish, Add</i>	13.73	
				<i>For Work In Restricted Working Space, Add</i>	42.20	
22 07 19 00-0192	LF			30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.58	60.87
				<i>For Single Layer Of Felt Finish, Add</i>	14.70	
				<i>For Work In Restricted Working Space, Add</i>	49.99	
22 07 19 00-0193	LF			36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	370.85	77.40
				<i>For Single Layer Of Felt Finish, Add</i>	16.70	
				<i>For Work In Restricted Working Space, Add</i>	63.56	
22 07 19 00-0194	LF			42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	435.14	94.26
				<i>For Single Layer Of Felt Finish, Add</i>	18.70	
				<i>For Work In Restricted Working Space, Add</i>	77.13	
22 07 19 00-0195	LF			44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	468.27	103.57
				<i>For Single Layer Of Felt Finish, Add</i>	19.42	
				<i>For Work In Restricted Working Space, Add</i>	85.01	
22 07 19 00-0196	LF			46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	498.02	111.49
				<i>For Single Layer Of Felt Finish, Add</i>	20.20	
				<i>For Work In Restricted Working Space, Add</i>	91.70	

22 07 19 00-0197				Foamglas Pipe Insulation, Rigid, Closed Cell <small>(22 07 19)</small> Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0198				1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0199	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.83 5.82	6.41
22 07 19 00-0200	LF		3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.44 5.82	6.41
22 07 19 00-0201	LF		1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.35 5.91	6.50
22 07 19 00-0202	LF		1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.83 5.99	6.59
22 07 19 00-0203	LF		1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.53 6.08	6.68
22 07 19 00-0204	LF		2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.88 6.25	6.87
22 07 19 00-0205	LF		2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.61 6.50	7.15
22 07 19 00-0206	LF		3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.37 6.67	7.34
22 07 19 00-0207	LF		4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.32 7.18	7.89
22 07 19 00-0208	LF		6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.21 8.10	8.90
22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)					
22 07 19 00-0210	LF		1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.10 6.25	7.10
22 07 19 00-0211	LF		3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.49 6.25	7.10
22 07 19 00-0212	LF		1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.16 6.33	7.19
22 07 19 00-0213	LF		1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.71 6.41	7.28
22 07 19 00-0214	LF		1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.24 6.50	7.38
22 07 19 00-0215	LF		2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.15 6.71	7.63
22 07 19 00-0216	LF		2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.27 6.97	7.92
22 07 19 00-0217	LF		3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.03 7.18	8.16
22 07 19 00-0218	LF		4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.11 7.64	8.68
22 07 19 00-0219	LF		6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.65 8.65	9.84
22 07 19 00-0220	LF		8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.02 9.65	10.97
22 07 19 00-0221	LF		10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	61.23 11.12	12.65
22 07 19 00-0222	LF		12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.37 13.82	15.71
22 07 19 00-0223	LF		14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.14 15.02	16.53
22 07 19 00-0224	LF		16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	89.61 16.79	18.46
22 07 19 00-0225	LF		18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.51 19.85	21.84
22 07 19 00-0226	LF		20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	114.29 21.98	24.18
22 07 19 00-0227	LF		24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	139.15 24.35	26.79
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)					
22 07 19 00-0229	LF		1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.81 6.67	7.34
22 07 19 00-0230	LF		3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.42 6.67	7.34
22 07 19 00-0231	LF		1" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.28 6.75	7.41
22 07 19 00-0232	LF		1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.51 6.84	7.53
22 07 19 00-0233	LF		1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.75 6.92	7.62
22 07 19 00-0234	LF		2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.85 7.18	7.89
22 07 19 00-0235	LF		2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.44 7.43	8.18
22 07 19 00-0236	LF		3" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.76 7.68	8.44
22 07 19 00-0237	LF		4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.03 8.10	8.91
22 07 19 00-0238	LF		6" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.90 9.20	10.12
22 07 19 00-0239	LF		8" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.69 10.26	11.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	68.25 11.84	13.01
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	84.59 14.71	16.18
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	90.76 16.05	17.67
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.05 20.52	22.58
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	117.95 21.54	23.70
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	131.39 24.63	27.09
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	163.51 29.75	32.73
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.79 7.23	7.96
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	33.80 7.23	7.95
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.23 7.35	8.08
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.44 7.40	8.14
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.67 7.46	8.21
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.12 7.77	8.53
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.43 8.03	8.83
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.62 8.31	9.14
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	50.50 8.77	9.64
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.81 9.97	10.97
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	66.65 11.11	12.22
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	76.20 12.81	14.09
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	94.85 15.92	17.52
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	99.77 17.39	19.12
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.56 22.22	24.44
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	129.09 23.33	25.65
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	148.24 26.66	29.33
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	184.34 32.21	35.44
22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.45 7.69	8.46
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.06 7.69	8.46
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.11 7.82	8.60
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.90 7.87	8.65
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.74 7.94	8.73
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	44.56 8.26	9.08
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	47.23 8.54	9.41
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	52.71 8.84	9.73
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.30 9.32	10.25
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	65.37 10.60	11.66
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	73.67 11.82	13.00
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	87.36 13.63	15.00
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	102.70 16.94	18.63
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	110.35 18.49	20.34

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation	133.45	26.00
<i>For Work In Restricted Working Space, Add</i>	23.63	
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation	142.33	27.30
<i>For Work In Restricted Working Space, Add</i>	24.82	
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation	166.01	31.20
<i>For Work In Restricted Working Space, Add</i>	28.37	
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation	202.50	37.70
<i>For Work In Restricted Working Space, Add</i>	34.27	
22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	46.37	10.25
<i>For Work In Restricted Working Space, Add</i>	9.32	
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	47.14	10.25
<i>For Work In Restricted Working Space, Add</i>	9.32	
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	48.13	10.32
<i>For Work In Restricted Working Space, Add</i>	9.39	
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	49.10	10.38
<i>For Work In Restricted Working Space, Add</i>	9.45	
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	50.27	10.51
<i>For Work In Restricted Working Space, Add</i>	9.56	
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	54.63	10.89
<i>For Work In Restricted Working Space, Add</i>	9.89	
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	59.04	11.27
<i>For Work In Restricted Working Space, Add</i>	10.24	
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	62.13	11.66
<i>For Work In Restricted Working Space, Add</i>	10.60	
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	66.38	12.33
<i>For Work In Restricted Working Space, Add</i>	11.21	
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	76.23	13.99
<i>For Work In Restricted Working Space, Add</i>	12.72	
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	86.35	15.58
<i>For Work In Restricted Working Space, Add</i>	14.17	
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	102.65	17.99
<i>For Work In Restricted Working Space, Add</i>	16.35	
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	122.37	22.36
<i>For Work In Restricted Working Space, Add</i>	20.33	
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	128.71	24.41
<i>For Work In Restricted Working Space, Add</i>	22.19	
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	156.19	31.20
<i>For Work In Restricted Working Space, Add</i>	28.37	
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	170.18	32.77
<i>For Work In Restricted Working Space, Add</i>	29.78	
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	193.91	37.47
<i>For Work In Restricted Working Space, Add</i>	34.06	
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation	237.38	45.24
<i>For Work In Restricted Working Space, Add</i>	41.13	
22 07 19 00-0304 4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation	56.58	12.61
<i>For Work In Restricted Working Space, Add</i>	11.46	
22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation	57.58	12.61
<i>For Work In Restricted Working Space, Add</i>	11.46	
22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation	59.23	12.82
<i>For Work In Restricted Working Space, Add</i>	11.66	
22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation	60.69	12.98
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	62.91	13.38
<i>For Work In Restricted Working Space, Add</i>	12.16	
22 07 19 00-0310 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation	67.33	13.78
<i>For Work In Restricted Working Space, Add</i>	12.54	
22 07 19 00-0311 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation	71.13	14.01
<i>For Work In Restricted Working Space, Add</i>	12.74	
22 07 19 00-0312 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation	74.49	14.53
<i>For Work In Restricted Working Space, Add</i>	13.20	
22 07 19 00-0313 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation	81.73	16.19
<i>For Work In Restricted Working Space, Add</i>	14.72	
22 07 19 00-0314 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation	93.24	17.38
<i>For Work In Restricted Working Space, Add</i>	15.81	
22 07 19 00-0315 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation	104.51	18.85
<i>For Work In Restricted Working Space, Add</i>	17.14	
22 07 19 00-0316 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation	120.48	22.41
<i>For Work In Restricted Working Space, Add</i>	20.37	
22 07 19 00-0317 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation	142.35	27.83
<i>For Work In Restricted Working Space, Add</i>	25.29	
22 07 19 00-0318 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation	154.93	30.38
<i>For Work In Restricted Working Space, Add</i>	27.63	
22 07 19 00-0319 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation	186.57	38.85
<i>For Work In Restricted Working Space, Add</i>	35.33	
22 07 19 00-0320 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation	205.15	40.73
<i>For Work In Restricted Working Space, Add</i>	37.02	
22 07 19 00-0321 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation	230.89	46.60
<i>For Work In Restricted Working Space, Add</i>	42.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	290.15 51.19	56.31
22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.21 2.36	3.92
22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.22 2.36	3.92
22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.53 2.44	4.07
22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.86 2.53	4.21
22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.12 2.57	4.29
22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.42 2.61	4.35
22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.54 2.62	4.35
22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.84 2.63	4.35
22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.48 2.71	4.48
22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.78 2.75	4.56
22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.04 2.57	4.29
22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.13 2.58	4.29
22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.26 2.61	4.35
22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.41 2.63	4.38
22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.79 2.69	4.48
22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.11 2.73	4.56
22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.47 2.78	4.62
22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.89 2.81	4.69
22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.62 2.90	4.83
22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.35 2.94	4.90
22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.02 2.98	4.96
22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.45 3.02	5.03
22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.98 2.78	4.62
22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.11 2.81	4.69
22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.64 2.90	4.83
22 07 19 00-0352 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.89 2.94	4.90
22 07 19 00-0353 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.52 3.02	5.03
22 07 19 00-0354 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.12 3.06	5.11
22 07 19 00-0355 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.40 3.08	5.13
22 07 19 00-0356 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.44 3.11	5.17
22 07 19 00-0357 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.93 3.19	5.30
22 07 19 00-0358 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.06 3.23	5.38
22 07 19 00-0359 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.12 3.27	5.45
22 07 19 00-0360 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.59 3.31	5.51



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0361			1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0362	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.24	5.11
			<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0363	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.49	5.17
			<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0364	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.20	5.30
			<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0365	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.44	5.38
			<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0366	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.47	5.51
			<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0367	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.04	5.66
			<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0368	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.27	5.72
			<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0369	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.22	5.79
			<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0370	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.96	5.94
			<i>For Work In Restricted Working Space, Add</i>	3.56	
22 07 19 00-0371	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.57	6.00
			<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0372			Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)		
			Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0373			3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0374	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.63	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0375	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.76	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0376	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.10	4.07
			<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0377	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.30	4.13
			<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-0378	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.52	4.21
			<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0379	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.80	4.29
			<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0380	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.05	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0381	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.29	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.62	
22 07 19 00-0382	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.50	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0383	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.72	4.42
			<i>For Work In Restricted Working Space, Add</i>	2.65	
22 07 19 00-0384	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.04	4.48
			<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0385	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.32	4.48
			<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-0386	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.52	4.56
			<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0387	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.80	4.56
			<i>For Work In Restricted Working Space, Add</i>	2.75	
22 07 19 00-0388	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.40	4.62
			<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0389	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.10	4.69
			<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0390	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.86	4.72
			<i>For Work In Restricted Working Space, Add</i>	2.83	
22 07 19 00-0391			1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0392	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.71	4.29
			<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0393	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.83	4.29
			<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-0394	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.97	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0395	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.17	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.62	
22 07 19 00-0396	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.33	4.35
			<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0397	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.72	4.48
			<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0398	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.10	4.56
			<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0399	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.43	4.62
			<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0400	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.76	4.66
			<i>For Work In Restricted Working Space, Add</i>	2.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.03 2.81	4.69
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.03 2.86	4.77
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.63 2.90	4.83
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.09 2.92	4.87
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.48 2.94	4.90
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.76 2.96	4.94
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.00 2.98	4.96
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.15 3.02	5.03
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.43 3.04	5.07
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.53 3.06	5.11
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.87 3.14	5.24
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.35 3.23	5.38
22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.10 2.78	4.62
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.39 2.81	4.69
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.84 2.90	4.83
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.10 2.92	4.87
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.23 2.94	4.90
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.87 3.02	5.03
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.37 3.06	5.11
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.89 3.11	5.17
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.02 3.11	5.17
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.21 3.13	5.21
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.80 3.15	5.24
22 07 19 00-0425 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.13 3.19	5.30
22 07 19 00-0426 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.79 3.20	5.34
22 07 19 00-0427 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.26 3.23	5.38
22 07 19 00-0428 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.97 3.25	5.42
22 07 19 00-0429 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.24 3.27	5.45
22 07 19 00-0430 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.30 3.31	5.51
22 07 19 00-0431 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.15 3.33	5.55
22 07 19 00-0432 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.55 3.35	5.58
22 07 19 00-0433 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.06 3.39	5.66
22 07 19 00-0434 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.88 3.47	5.79
22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0436 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.92 3.06	5.09
22 07 19 00-0437 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.29 3.11	5.17
22 07 19 00-0438 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.76 3.19	5.30
22 07 19 00-0439 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.13 3.20	5.34
22 07 19 00-0440 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.47 3.23	5.38
22 07 19 00-0441 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.07 3.31	5.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0442 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.99 3.39	5.66
22 07 19 00-0443 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.46 3.43	5.66
22 07 19 00-0444 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.07 3.46	5.72
22 07 19 00-0445 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.29 3.47	5.79
22 07 19 00-0446 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.60 3.52	5.87
22 07 19 00-0447 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.63 3.56	5.94
22 07 19 00-0448 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.90 3.58	5.98
22 07 19 00-0449 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.29 3.60	6.00
22 07 19 00-0450 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.97 3.62	6.04
22 07 19 00-0451 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.30 3.64	6.07
22 07 19 00-0452 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.77 3.72	6.21
22 07 19 00-0453 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.45 3.77	6.28
22 07 19 00-0454 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.89 3.81	6.34
22 07 19 00-0455 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.51 3.89	6.49
22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0457 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.14 3.43	5.71
22 07 19 00-0458 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.62 3.51	5.84
22 07 19 00-0459 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.00 3.53	5.87
22 07 19 00-0460 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.38 3.54	5.93
22 07 19 00-0461 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.95 3.62	6.06
22 07 19 00-0462 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.88 3.76	6.28
22 07 19 00-0463 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.10 3.80	6.19
22 07 19 00-0464 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.17 3.84	6.33
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.84 3.89	6.49
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.87 3.93	6.57
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.78 3.97	6.64
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.69 4.00	6.67
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.58 4.02	6.68
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.63 4.04	6.72
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.29 4.05	6.75
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.91 4.19	7.00
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.86 4.26	7.10
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.49 4.33	7.21
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	47.13 4.46	7.43
22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.14 3.78	6.31
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.18 3.86	6.40
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.90 3.88	6.45
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.49 3.89	6.50
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.99 3.97	6.63
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.87 4.16	6.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.93 4.19	6.78
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	36.85 4.27	7.01
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	38.69 4.35	7.24
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	39.91 4.39	7.34
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.40 4.43	7.43
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.73 4.46	7.44
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	45.04 4.48	7.45
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	46.66 4.50	7.49
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	48.37 4.51	7.53
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	54.17 4.71	7.88
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.54 4.82	8.04
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	58.57 4.92	8.19
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	65.54 5.11	8.52
22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.36 2.36	3.92
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.44 2.36	3.92
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.74 2.44	4.07
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.11 2.53	4.21
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.33 2.57	4.29
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.70 2.61	4.35
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.96 2.62	4.35
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.16 2.63	4.48
22 07 19 00-0506 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.04 2.71	4.48
22 07 19 00-0507 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.81 2.75	4.56
22 07 19 00-0508 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.74 2.81	4.69
22 07 19 00-0509 1/2" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0510 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.31 2.57	4.29
22 07 19 00-0511 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.39 2.58	4.29
22 07 19 00-0512 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.56 2.61	4.35
22 07 19 00-0513 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.79 2.63	4.35
22 07 19 00-0514 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.08 2.69	4.48
22 07 19 00-0515 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.49 2.73	4.56
22 07 19 00-0516 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.93 2.78	4.62
22 07 19 00-0517 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.35 2.81	4.69
22 07 19 00-0518 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.29 2.90	4.83
22 07 19 00-0519 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.11 2.94	4.90
22 07 19 00-0520 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.65 3.02	5.03
22 07 19 00-0521 3/4" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0522	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.39	4.62	
		<i>For Work In Restricted Working Space, Add</i>	2.78		
22 07 19 00-0523	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.70	4.69	
		<i>For Work In Restricted Working Space, Add</i>	2.81		
22 07 19 00-0524	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.10	4.83	
		<i>For Work In Restricted Working Space, Add</i>	2.90		
22 07 19 00-0525	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.68	4.90	
		<i>For Work In Restricted Working Space, Add</i>	2.94		
22 07 19 00-0526	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.24	5.03	
		<i>For Work In Restricted Working Space, Add</i>	3.02		
22 07 19 00-0527	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.13	5.11	
		<i>For Work In Restricted Working Space, Add</i>	3.06		
22 07 19 00-0528	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.71	5.11	
		<i>For Work In Restricted Working Space, Add</i>	3.08		
22 07 19 00-0529	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.37	5.17	
		<i>For Work In Restricted Working Space, Add</i>	3.11		
22 07 19 00-0530	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.67	5.30	
		<i>For Work In Restricted Working Space, Add</i>	3.19		
22 07 19 00-0531	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.83	5.38	
		<i>For Work In Restricted Working Space, Add</i>	3.23		
22 07 19 00-0532	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.05	5.51	
		<i>For Work In Restricted Working Space, Add</i>	3.31		
22 07 19 00-0533		1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)			
22 07 19 00-0534	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.19	5.11	
		<i>For Work In Restricted Working Space, Add</i>	3.06		
22 07 19 00-0535	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.38	5.17	
		<i>For Work In Restricted Working Space, Add</i>	3.11		
22 07 19 00-0536	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.79	5.30	
		<i>For Work In Restricted Working Space, Add</i>	3.19		
22 07 19 00-0537	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.59	5.38	
		<i>For Work In Restricted Working Space, Add</i>	3.23		
22 07 19 00-0538	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.29	5.51	
		<i>For Work In Restricted Working Space, Add</i>	3.31		
22 07 19 00-0539	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.02	5.66	
		<i>For Work In Restricted Working Space, Add</i>	3.39		
22 07 19 00-0540	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.69	5.66	
		<i>For Work In Restricted Working Space, Add</i>	3.43		
22 07 19 00-0541	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.15	5.79	
		<i>For Work In Restricted Working Space, Add</i>	3.47		
22 07 19 00-0542	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.12	5.94	
		<i>For Work In Restricted Working Space, Add</i>	3.56		
22 07 19 00-0543	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	20.52	6.00	
		<i>For Work In Restricted Working Space, Add</i>	3.60		
22 07 19 00-0544		Flexible Elastomeric Unicellular Insulation (22 07 19)			
		Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.			
22 07 19 00-0545		3/8" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)			
22 07 19 00-0546	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	8.35	3.92	
		<i>For Work In Restricted Working Space, Add</i>	2.36		
22 07 19 00-0547	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	8.70	4.07	
		<i>For Work In Restricted Working Space, Add</i>	2.44		
22 07 19 00-0548	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.04	4.22	
		<i>For Work In Restricted Working Space, Add</i>	2.53		
22 07 19 00-0549	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.26	4.29	
		<i>For Work In Restricted Working Space, Add</i>	2.57		
22 07 19 00-0550	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.49	4.35	
		<i>For Work In Restricted Working Space, Add</i>	2.61		
22 07 19 00-0551	LF	1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	9.72	4.38	
		<i>For Work In Restricted Working Space, Add</i>	2.62		
22 07 19 00-0552	LF	2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	10.14	4.49	
		<i>For Work In Restricted Working Space, Add</i>	2.69		
22 07 19 00-0553	LF	2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	10.81	4.52	
		<i>For Work In Restricted Working Space, Add</i>	2.71		
22 07 19 00-0554	LF	3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation	11.36	4.59	
		<i>For Work In Restricted Working Space, Add</i>	2.75		
22 07 19 00-0555		1/2" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)			
22 07 19 00-0556	LF	3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	9.17	4.22	
		<i>For Work In Restricted Working Space, Add</i>	2.53		
22 07 19 00-0557	LF	1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	9.50	4.35	
		<i>For Work In Restricted Working Space, Add</i>	2.61		
22 07 19 00-0558	LF	3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	9.66	4.35	
		<i>For Work In Restricted Working Space, Add</i>	2.63		
22 07 19 00-0559	LF	1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	9.97	4.48	
		<i>For Work In Restricted Working Space, Add</i>	2.69		
22 07 19 00-0560	LF	1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation	10.21	4.56	
		<i>For Work In Restricted Working Space, Add</i>	2.73		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.53 2.78	4.62
22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.01 2.81	4.69
22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.86 2.90	4.83
22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.39 2.94	4.90
22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.35 2.98	4.96
22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.85 3.02	5.03
22 07 19 00-0567 3/4" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.31 2.75	4.60
22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.88 2.90	4.83
22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.27 2.94	4.90
22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.87 3.02	5.04
22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.25 3.06	5.11
22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.08 3.11	5.17
22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.73 3.13	5.21
22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.81 3.19	5.32
22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.54 3.23	5.38
22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.70 3.27	5.45
22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.28 3.31	5.51
22 07 19 00-0579 1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0580 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.27 3.06	5.11
22 07 19 00-0581 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.82 3.19	5.32
22 07 19 00-0582 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.47 3.23	5.38
22 07 19 00-0583 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.33 3.31	5.51
22 07 19 00-0584 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.14 3.39	5.66
22 07 19 00-0585 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.68 3.43	5.72
22 07 19 00-0586 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.68 3.47	5.79
22 07 19 00-0587 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.06 3.56	5.94
22 07 19 00-0588 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.73 3.60	6.00
22 07 19 00-0589 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.67 3.64	6.07
22 07 19 00-0590 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.60 3.72	6.21
22 07 19 00-0591 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0592 Covering 4x6 Sheet (22 07 19 00-0591)		
22 07 19 00-0593 SF 1" Thick Foam Rubber Sheet Insulation.....	24.49	9.33
22 07 19 00-0594 Insulation Protective Jacketing (22 07 19)		
Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0594)		
22 07 19 00-0596 Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0595)		
22 07 19 00-0597 SF 0.006" Aluminum Insulation Jacket With Bands.....	19.58	8.40
22 07 19 00-0598 SF 0.010" Aluminum Insulation Jacket With Bands.....	19.85	8.40
22 07 19 00-0599 SF 0.016" Aluminum Insulation Jacket With Bands.....	20.11	8.40
22 07 19 00-0600 SF 0.020" Aluminum Insulation Jacket With Bands.....	20.35	8.40
22 07 19 00-0601 SF 0.024" Aluminum Insulation Jacket With Bands.....	20.58	8.40

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0602			16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0603	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing.....	9.91	2.38
			For Stucco Embossed, Add	0.00	
			For Corrugated, Add	0.01	
22 07 19 00-0604	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing.....	10.24	2.44
			For Stucco Embossed, Add	0.00	
			For Corrugated, Add	0.01	
22 07 19 00-0605	LF		1" ID, 0.016" Aluminum Insulation Jacketing.....	10.58	2.51
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.01	
22 07 19 00-0606	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing	10.93	2.57
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0607	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing	11.19	2.60
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0608	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing	11.45	2.64
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0609	LF		2" ID, 0.016" Aluminum Insulation Jacketing.....	11.77	2.70
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0610	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing	12.11	2.75
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0611	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing	12.47	2.81
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0612	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing	12.76	2.86
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0613	LF		3" ID, 0.016" Aluminum Insulation Jacketing.....	13.13	2.92
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.04	
22 07 19 00-0614	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing	13.51	2.99
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0615	LF		3-1/2" ID, 0.016" Aluminum Insulation Jacketing	13.88	3.06
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0616	LF		3-3/4" ID, 0.016" Aluminum Insulation Jacketing	14.22	3.11
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0617	LF		4" ID, 0.016" Aluminum Insulation Jacketing.....	14.63	3.18
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0618	LF		4-1/4" ID, 0.016" Aluminum Insulation Jacketing	15.05	3.26
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0619	LF		4-1/2" ID, 0.016" Aluminum Insulation Jacketing	15.50	3.35
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0620	LF		4-3/4" ID, 0.016" Aluminum Insulation Jacketing	15.86	3.41
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0621	LF		5" ID, 0.016" Aluminum Insulation Jacketing.....	16.33	3.50
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0622	LF		5-1/4" ID, 0.016" Aluminum Insulation Jacketing	16.83	3.60
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0623	LF		5-1/2" ID, 0.016" Aluminum Insulation Jacketing	17.23	3.67
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.06	
22 07 19 00-0624	LF		5-3/4" ID, 0.016" Aluminum Insulation Jacketing	17.77	3.78
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0625	LF		6" ID, 0.016" Aluminum Insulation Jacketing.....	18.33	3.89
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0626	LF		6-1/4" ID, 0.016" Aluminum Insulation Jacketing	18.68	3.95
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0627	LF		6-1/2" ID, 0.016" Aluminum Insulation Jacketing	19.03	4.01
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0628	LF		7" ID, 0.016" Aluminum Insulation Jacketing.....	19.61	4.10
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.08	
22 07 19 00-0629	LF		7-1/4" ID, 0.016" Aluminum Insulation Jacketing	20.10	4.21
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.48 0.03 0.09	4.27
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.99 0.04 0.09	4.35
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.49 0.04 0.10	4.42
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.15 0.04 0.10	4.53
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.70 0.04 0.11	4.61
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.25 0.04 0.11	4.69
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.80 0.05 0.12	4.78
22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.55 0.05 0.12	4.91
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.15 0.05 0.13	5.00
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.76 0.05 0.13	5.10
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.58 0.06 0.14	5.25
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.01 0.06 0.14	5.30
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.67 0.06 0.16	5.36
22 07 19 00-0643 LF 15" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.17	5.47
22 07 19 00-0644 LF 16" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.21 0.07 0.18	5.53
22 07 19 00-0645 LF 17" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.13 0.08 0.19	5.64
22 07 19 00-0646 LF 18" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.66 0.08 0.20	5.70
22 07 19 00-0647 LF 19" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.74 0.08 0.21	5.84
22 07 19 00-0648 LF 20" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.45 0.09 0.22	5.91
22 07 19 00-0649 LF 21" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.42 0.09 0.23	6.04
22 07 19 00-0650 LF 22" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.13 0.10 0.24	6.11
22 07 19 00-0651 LF 23" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.15 0.10 0.25	6.26
22 07 19 00-0652 LF 24" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.88 0.11 0.26	6.33
22 07 19 00-0653 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0654 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.96 0.00 0.01	2.63
22 07 19 00-0655 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.34 0.01 0.02	2.69
22 07 19 00-0656 LF 1" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.74 0.01 0.02	2.75
22 07 19 00-0657 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.15 0.01 0.02	2.82

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0658 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing	12.44	2.86
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0659 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing	12.75	2.91
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0660 LF 2" ID, 0.020" Aluminum Insulation Jacketing.....	13.13	2.97
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0661 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing	13.51	3.03
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0662 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing	13.91	3.09
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0663 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing	14.27	3.14
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0664 LF 3" ID, 0.020" Aluminum Insulation Jacketing.....	14.69	3.21
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0665 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing	15.12	3.28
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0666 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing	15.57	3.36
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0667 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing	15.93	3.42
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0668 LF 4" ID, 0.020" Aluminum Insulation Jacketing.....	16.40	3.50
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0669 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.89	3.59
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0670 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing	17.41	3.68
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing	17.83	3.75
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing.....	18.37	3.85
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing	18.93	3.95
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing	19.39	4.04
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing	20.01	4.16
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing.....	20.64	4.28
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing	21.03	4.35
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing	21.44	4.41
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing.....	22.11	4.52
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing	22.67	4.62
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing	23.11	4.70
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing.....	23.71	4.78
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing	24.28	4.86
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing.....	25.06	4.98
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing	25.70	5.07
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.33 0.06 0.14	5.16
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.98 0.06 0.15	5.25
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.84 0.06 0.16	5.40
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.16	5.50
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.24 0.07 0.17	5.61
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.18 0.07 0.18	5.77
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.69 0.07 0.18	5.84
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.49 0.08 0.20	5.90
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.53 0.08 0.21	6.02
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.34 0.09 0.23	6.09
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.41 0.10 0.24	6.22
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.05 0.10 0.25	6.28
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.33 0.11 0.27	6.42
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.19 0.11 0.28	6.49
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.34 0.12 0.29	6.64
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.18 0.12 0.31	6.72
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.39 0.13 0.32	6.88
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.27 0.13 0.34	6.96
22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.01 0.01 0.01	2.87
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.44 0.01 0.02	2.93
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.88 0.01 0.02	3.00
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.33 0.01 0.03	3.08
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.69 0.01 0.03	3.12
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.03 0.01 0.03	3.17
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.46 0.02 0.04	3.23
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.89 0.02 0.04	3.30
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.35 0.02 0.05	3.37

22	Plumbing
22 07	Plumbing Insulation
22 07 19	Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing	15.74	3.43
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing.....	16.22	3.50
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing	16.71	3.58
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing	17.20	3.66
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing	17.63	3.73
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing.....	18.15	3.82
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing	18.69	3.91
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing	19.28	4.01
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing	19.75	4.09
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing.....	20.35	4.21
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing	20.96	4.32
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing	21.51	4.41
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing	22.19	4.54
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing.....	22.88	4.67
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing	23.33	4.74
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing	23.79	4.81
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing.....	24.54	4.92
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing	25.18	5.04
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing	25.66	5.12
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing.....	26.36	5.21
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing	27.01	5.29
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing.....	27.88	5.43
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing	28.60	5.53
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing.....	29.34	5.62
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing	30.06	5.73
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	31.03	5.90
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing	31.83	6.01
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing.....	32.62	6.12
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.68 0.08 0.21	6.31
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.25 0.09 0.22	6.37
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.19 0.09 0.24	6.43
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.39 0.10 0.25	6.57
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.33 0.11 0.27	6.63
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.55 0.11 0.29	6.78
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.30 0.12 0.30	6.85
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.78 0.13 0.32	7.00
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.76 0.13 0.34	7.08
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.07 0.14 0.35	7.24
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.06 0.15 0.37	7.33
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.42 0.15 0.39	7.51
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.43 0.16 0.40	7.60
22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0756 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.01 0.02	3.18
22 07 19 00-0757 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.96 0.01 0.02	3.25
22 07 19 00-0758 LF 1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.48 0.01 0.03	3.33
22 07 19 00-0759 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.02 0.01 0.03	3.41
22 07 19 00-0760 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.04	3.46
22 07 19 00-0761 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.87 0.02 0.05	3.51
22 07 19 00-0762 LF 2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.38 0.02 0.05	3.58
22 07 19 00-0763 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.90 0.02 0.06	3.66
22 07 19 00-0764 LF 2-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.45 0.03 0.06	3.73
22 07 19 00-0765 LF 2-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.92 0.03 0.07	3.79
22 07 19 00-0766 LF 3" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.50 0.03 0.07	3.88
22 07 19 00-0767 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.08 0.03 0.08	3.97
22 07 19 00-0768 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.66 0.03 0.09	4.06
22 07 19 00-0769 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.16 0.04 0.09	4.13

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0770 LF 4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.78 0.04 0.10	4.24
22 07 19 00-0771 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.42 0.04 0.10	4.34
22 07 19 00-0772 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.12 0.04 0.11	4.45
22 07 19 00-0773 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.68 0.05 0.11	4.54
22 07 19 00-0774 LF 5" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.38 0.05 0.12	4.66
22 07 19 00-0775 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.11 0.05 0.12	4.79
22 07 19 00-0776 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.73 0.05 0.13	4.89
22 07 19 00-0777 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.54 0.05 0.14	5.03
22 07 19 00-0778 LF 6" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.34 0.06 0.14	5.17
22 07 19 00-0779 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.88 0.06 0.15	5.25
22 07 19 00-0780 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.42 0.06 0.15	5.33
22 07 19 00-0781 LF 7" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.33 0.07 0.16	5.45
22 07 19 00-0782 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.07 0.07 0.17	5.59
22 07 19 00-0783 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.66 0.07 0.17	5.68
22 07 19 00-0784 LF 8" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.49 0.07 0.18	5.77
22 07 19 00-0785 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.29 0.08 0.20	5.88
22 07 19 00-0786 LF 9" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.34 0.08 0.21	6.03
22 07 19 00-0787 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.22 0.09 0.22	6.13
22 07 19 00-0788 LF 10" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.10 0.09 0.23	6.24
22 07 19 00-0789 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.99 0.10 0.24	6.35
22 07 19 00-0790 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.15 0.10 0.25	6.53
22 07 19 00-0791 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.10 0.10 0.26	6.65
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.06 0.11 0.27	6.78
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.31 0.11 0.28	6.98
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.03 0.12 0.30	7.05
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.21 0.13 0.32	7.13
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.69 0.14 0.34	7.27
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.90 0.14 0.36	7.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.40 0.15 0.38	7.52
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.32 0.16 0.40	7.60
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.18 0.17 0.43	7.77
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.43 0.18 0.45	7.85
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.02 0.19 0.47	8.03
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.28 0.20 0.49	8.12
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.95 0.21 0.52	8.32
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.21 0.22 0.54	8.42
 22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0805)</small>		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.54 0.01 0.02	3.65
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.15 0.01 0.03	3.74
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.78 0.01 0.04	3.82
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.43 0.02 0.04	3.92
22 07 19 00-0811 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.94 0.02 0.05	3.97
22 07 19 00-0812 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.46 0.02 0.06	4.03
22 07 19 00-0813 LF 2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.06 0.03 0.06	4.12
22 07 19 00-0814 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.68 0.03 0.07	4.21
22 07 19 00-0815 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.34 0.03 0.08	4.30
22 07 19 00-0816 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.91 0.03 0.09	4.37
22 07 19 00-0817 LF 3" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.60 0.04 0.09	4.47
22 07 19 00-0818 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.27 0.04 0.10	4.57
22 07 19 00-0819 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.98 0.04 0.11	4.67
22 07 19 00-0820 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.58 0.05 0.11	4.76
22 07 19 00-0821 LF 4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.31 0.05 0.12	4.87
22 07 19 00-0822 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.08 0.05 0.13	4.99
22 07 19 00-0823 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.89 0.05 0.14	5.12
22 07 19 00-0824 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.57 0.06 0.14	5.22
22 07 19 00-0825 LF 5" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.39 0.06 0.15	5.36

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0826	LF		5-1/4" ID, 0.040" Aluminum Insulation Jacketing	28.26	5.50
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0827	LF		5-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.99	5.62
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0828	LF		5-3/4" ID, 0.040" Aluminum Insulation Jacketing	29.95	5.78
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0829	LF		6" ID, 0.040" Aluminum Insulation Jacketing.....	30.91	5.96
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0830	LF		6-1/4" ID, 0.040" Aluminum Insulation Jacketing	31.54	6.05
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0831	LF		6-1/2" ID, 0.040" Aluminum Insulation Jacketing	32.18	6.14
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0832	LF		7" ID, 0.040" Aluminum Insulation Jacketing.....	33.27	6.28
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0833	LF		7-1/4" ID, 0.040" Aluminum Insulation Jacketing	34.15	6.43
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0834	LF		7-1/2" ID, 0.040" Aluminum Insulation Jacketing	34.85	6.53
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0835	LF		8" ID, 0.040" Aluminum Insulation Jacketing.....	35.85	6.65
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0836	LF		8-1/2" ID, 0.040" Aluminum Insulation Jacketing	36.81	6.75
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0837	LF		9" ID, 0.040" Aluminum Insulation Jacketing.....	38.06	6.93
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0838	LF		9-1/2" ID, 0.040" Aluminum Insulation Jacketing	39.14	7.05
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.27	
22 07 19 00-0839	LF		10" ID, 0.040" Aluminum Insulation Jacketing.....	40.18	7.17
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0840	LF		10-1/2" ID, 0.040" Aluminum Insulation Jacketing	41.26	7.30
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.30	
22 07 19 00-0841	LF		11" ID, 0.0106 Aluminum Insulation Jacketing.....	42.62	7.52
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0842	LF		11-1/2" ID, 0.040" Aluminum Insulation Jacketing	43.77	7.66
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0843	LF		12" ID, 0.040" Aluminum Insulation Jacketing.....	44.92	7.81
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0844	LF		12-1/2" ID, 0.040" Aluminum Insulation Jacketing	46.40	8.04
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0845	LF		13" ID, 0.040" Aluminum Insulation Jacketing.....	47.29	8.12
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.37	
22 07 19 00-0846	LF		14" ID, 0.040" Aluminum Insulation Jacketing.....	48.75	8.20
			<i>For Stucco Embossed, Add</i>	0.16	
			<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0847	LF		15" ID, 0.040" Aluminum Insulation Jacketing.....	50.52	8.37
			<i>For Stucco Embossed, Add</i>	0.17	
			<i>For Corrugated, Add</i>	0.43	
22 07 19 00-0848	LF		16" ID, 0.040" Aluminum Insulation Jacketing.....	52.00	8.46
			<i>For Stucco Embossed, Add</i>	0.18	
			<i>For Corrugated, Add</i>	0.45	
22 07 19 00-0849	LF		17" ID, 0.040" Aluminum Insulation Jacketing.....	53.84	8.64
			<i>For Stucco Embossed, Add</i>	0.19	
			<i>For Corrugated, Add</i>	0.48	
22 07 19 00-0850	LF		18" ID, 0.040" Aluminum Insulation Jacketing.....	54.96	8.73
			<i>For Stucco Embossed, Add</i>	0.20	
			<i>For Corrugated, Add</i>	0.50	
22 07 19 00-0851	LF		19" ID, 0.040" Aluminum Insulation Jacketing.....	57.21	8.93
			<i>For Stucco Embossed, Add</i>	0.21	
			<i>For Corrugated, Add</i>	0.54	
22 07 19 00-0852	LF		20" ID, 0.040" Aluminum Insulation Jacketing.....	58.75	9.03
			<i>For Stucco Embossed, Add</i>	0.23	
			<i>For Corrugated, Add</i>	0.57	
22 07 19 00-0853	LF		21" ID, 0.040" Aluminum Insulation Jacketing.....	60.67	9.24
			<i>For Stucco Embossed, Add</i>	0.24	
			<i>For Corrugated, Add</i>	0.59	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0854	LF			22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i>	62.20 0.25	9.35
				<i>For Corrugated, Add</i>	0.62	
22 07 19 00-0855	LF			23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i>	64.22 0.26	9.57
				<i>For Corrugated, Add</i>	0.65	
22 07 19 00-0856	LF			24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i>	65.78 0.27	9.68
				<i>For Corrugated, Add</i>	0.68	
22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings <small>(22 07 19 00-0595)</small>						
22 07 19 00-0858	EA			1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	20.45	3.75
22 07 19 00-0859	EA			1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	21.00	3.89
22 07 19 00-0860	EA			2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.00	4.04
22 07 19 00-0861	EA			2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.26	4.10
22 07 19 00-0862	EA			2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.51	4.17
22 07 19 00-0863	EA			2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.92	4.27
22 07 19 00-0864	EA			3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.93	4.38
22 07 19 00-0865	EA			3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.38	4.49
22 07 19 00-0866	EA			3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.04	4.57
22 07 19 00-0867	EA			3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.59	4.65
22 07 19 00-0868	EA			4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.51	4.78
22 07 19 00-0869	EA			4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.14	4.86
22 07 19 00-0870	EA			4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.50	4.96
22 07 19 00-0871	EA			4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.88	5.05
22 07 19 00-0872	EA			5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.50	5.15
22 07 19 00-0873	EA			5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	33.60	5.25
22 07 19 00-0874	EA			5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.34	5.41
22 07 19 00-0875	EA			5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.79	5.53
22 07 19 00-0876	EA			6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.22	5.70
22 07 19 00-0877	EA			6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	36.72	5.84
22 07 19 00-0878	EA			6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.26	6.04
22 07 19 00-0879	EA			7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	44.27	6.18
22 07 19 00-0880	EA			7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	44.56	6.26
22 07 19 00-0881	EA			7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	54.06	6.33
22 07 19 00-0882	EA			8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.06	6.41
22 07 19 00-0883	EA			8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	65.87	6.57
22 07 19 00-0884	EA			9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	66.54	6.73
22 07 19 00-0885	EA			9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	56.42	6.82
22 07 19 00-0886	EA			10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	56.79	6.91
22 07 19 00-0887	EA			10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.78	7.00
22 07 19 00-0888	EA			11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	58.16	7.10
22 07 19 00-0889	EA			11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.02	7.29
22 07 19 00-0890	EA			12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.43	7.39
22 07 19 00-0891	EA			12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.68	7.62
22 07 19 00-0892	EA			13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	91.13	7.73
22 07 19 00-0893	EA			14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	112.60	7.96
22 07 19 00-0894	EA			15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	117.27	8.21
22 07 19 00-0895	EA			16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	125.47	8.34
22 07 19 00-0896	EA			2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	22.32	4.17
22 07 19 00-0897	EA			2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.73	4.27
22 07 19 00-0898	EA			3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	23.90	4.38
22 07 19 00-0899	EA			3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.35	4.49
22 07 19 00-0900	EA			3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	25.55	4.57
22 07 19 00-0901	EA			3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.87	4.65
22 07 19 00-0902	EA			4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	26.51	4.78
22 07 19 00-0903	EA			4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.91	4.86
22 07 19 00-0904	EA			4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.27	4.96
22 07 19 00-0905	EA			4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.65	5.05
22 07 19 00-0906	EA			5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	30.51	5.15
22 07 19 00-0907	EA			5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.93	5.25
22 07 19 00-0908	EA			5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.06	5.41
22 07 19 00-0909	EA			6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	33.24	5.70
22 07 19 00-0910	EA			6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.52	6.04
22 07 19 00-0911	EA			7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.09	6.18
22 07 19 00-0912	EA			7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.81	6.33
22 07 19 00-0913	EA			8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	40.12	6.41
22 07 19 00-0914	EA			8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	44.30	6.57
22 07 19 00-0915	EA			9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.97	6.73
22 07 19 00-0916	EA			9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	52.32	6.82
22 07 19 00-0917	EA			10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.69	6.91
22 07 19 00-0918	EA			10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	51.43	7.00
22 07 19 00-0919	EA			11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.81	7.10
22 07 19 00-0920	EA			11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	57.31	7.29
22 07 19 00-0921	EA			12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.72	7.39
22 07 19 00-0922	EA			13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	63.92	7.73
22 07 19 00-0923	EA			14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	72.35	7.96
22 07 19 00-0924	EA			15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	95.26	8.21
22 07 19 00-0925	EA			16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	101.03	8.34
22 07 19 00-0926	EA			17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	99.96	8.47

22	Plumbing
22 07	Plumbing Insulation
22 07 19	Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0927 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	109.83	8.61
22 07 19 00-0928 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	127.10	8.75
22 07 19 00-0929 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	124.66	8.90
22 07 19 00-0930 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	132.36	9.05
22 07 19 00-0931 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing	62.68	5.97
22 07 19 00-0932 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing	63.24	6.11
22 07 19 00-0933 EA 3" ID, Aluminum Tee Insulation Jacketing.....	68.85	6.26
22 07 19 00-0934 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing	69.46	6.41
22 07 19 00-0935 EA 3-1/2" ID Aluminum Tee Insulation Jacketing	72.20	6.57
22 07 19 00-0936 EA 4" ID, Aluminum Tee Insulation Jacketing.....	73.37	6.73
22 07 19 00-0937 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing	76.77	6.91
22 07 19 00-0938 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing	77.11	7.10
22 07 19 00-0939 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing	77.90	7.29
22 07 19 00-0940 EA 5" ID, Aluminum Tee Insulation Jacketing.....	80.55	7.51
22 07 19 00-0941 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing	81.44	7.73
22 07 19 00-0942 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing	84.60	7.96
22 07 19 00-0943 EA 6" ID, Aluminum Tee Insulation Jacketing.....	85.60	8.21
22 07 19 00-0944 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing	92.99	8.75
22 07 19 00-0945 EA 7" ID, Aluminum Tee Insulation Jacketing.....	94.20	9.05
22 07 19 00-0946 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing	101.98	9.38
22 07 19 00-0947 EA 8" ID, Aluminum Tee Insulation Jacketing.....	103.36	9.73
22 07 19 00-0948 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing	106.56	10.10
22 07 19 00-0949 EA 9" ID, Aluminum Tee Insulation Jacketing.....	108.18	10.50
22 07 19 00-0950 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing	91.98	10.72
22 07 19 00-0951 EA 10" ID, Aluminum Tee Insulation Jacketing.....	92.87	10.95
22 07 19 00-0952 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing	97.01	11.18
22 07 19 00-0953 EA 11" ID, Aluminum Tee Insulation Jacketing.....	97.99	11.42
22 07 19 00-0954 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing	101.85	11.67
22 07 19 00-0955 EA 12" ID, Aluminum Tee Insulation Jacketing.....	102.91	11.94
22 07 19 00-0956 EA 13" ID, Aluminum Tee Insulation Jacketing.....	106.76	12.21
22 07 19 00-0957 EA 14" ID, Aluminum Tee Insulation Jacketing.....	110.76	12.51
22 07 19 00-0958 EA 15" ID, Aluminum Tee Insulation Jacketing.....	116.95	12.81
22 07 19 00-0959 EA 16" ID, Aluminum Tee Insulation Jacketing.....	119.87	13.13
22 07 19 00-0960 EA 17" ID, Aluminum Tee Insulation Jacketing.....	131.30	13.47
22 07 19 00-0961 EA 18" ID, Aluminum Tee Insulation Jacketing.....	135.73	13.82
22 07 19 00-0962 EA 19" ID, Aluminum Tee Insulation Jacketing.....	145.74	14.20
22 07 19 00-0963 EA 20" ID, Aluminum Tee Insulation Jacketing.....	149.26	14.59
22 07 19 00-0964 EA 22" ID, Aluminum Tee Insulation Jacketing.....	175.66	15.01
22 07 19 00-0965 EA 23" ID, Aluminum Tee Insulation Jacketing.....	180.64	15.45
22 07 19 00-0966 EA 24" ID, Aluminum Tee Insulation Jacketing.....	189.72	16.94
22 07 19 00-0967	Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)	
22 07 19 00-0968	Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)	
22 07 19 00-0969 SF 0.010" Stainless Steel Insulation Jacket With Bands	23.81	9.85
22 07 19 00-0970 SF 0.016" Stainless Steel Insulation Jacket With Bands	29.06	11.82
22 07 19 00-0971	10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)	
22 07 19 00-0972 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.84	2.10
22 07 19 00-0973 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.31	2.14
22 07 19 00-0974 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.80	2.19
22 07 19 00-0975 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.30	2.23
22 07 19 00-0976 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	13.81	2.28
22 07 19 00-0977 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.31	2.33
22 07 19 00-0978 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.82	2.38
22 07 19 00-0979 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.35	2.44
22 07 19 00-0980 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.88	2.51
22 07 19 00-0981 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing.....	17.00	2.63
22 07 19 00-0982 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.17	2.77
22 07 19 00-0983 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing.....	19.39	2.92
22 07 19 00-0984 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.32	3.00
22 07 19 00-0985 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.29	3.09
22 07 19 00-0986 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.36	3.20
22 07 19 00-0987 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.21	3.26
22 07 19 00-0988 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.07	3.32
22 07 19 00-0989 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.94	3.39
22 07 19 00-0990 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	25.82	3.45
22 07 19 00-0991 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.71	3.52
22 07 19 00-0992 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.61	3.60
22 07 19 00-0993 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing.....	28.52	3.67
22 07 19 00-0994 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing.....	30.38	3.83
22 07 19 00-0995 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing.....	32.19	3.98
22 07 19 00-0996 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing.....	33.65	4.04
22 07 19 00-0997	16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0998	LF		2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	16.17	2.80
22 07 19 00-0999	LF		2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.84	2.85
22 07 19 00-1000	LF		3" ID, 0.016" Stainless Steel Insulation Jacketing	17.51	2.91
22 07 19 00-1001	LF		3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	18.22	2.98
22 07 19 00-1002	LF		3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	18.92	3.04
22 07 19 00-1003	LF		3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	19.62	3.11
22 07 19 00-1004	LF		4" ID, 0.016" Stainless Steel Insulation Jacketing	20.36	3.18
22 07 19 00-1005	LF		4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	21.09	3.25
22 07 19 00-1006	LF		4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.84	3.33
22 07 19 00-1007	LF		5" ID, 0.016" Stainless Steel Insulation Jacketing	23.40	3.49
22 07 19 00-1008	LF		5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	25.02	3.67
22 07 19 00-1009	LF		6" ID, 0.016" Stainless Steel Insulation Jacketing	26.71	3.88
22 07 19 00-1010	LF		6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	28.04	3.99
22 07 19 00-1011	LF		7" ID, 0.016" Stainless Steel Insulation Jacketing	29.41	4.10
22 07 19 00-1012	LF		7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	30.89	4.26
22 07 19 00-1013	LF		8" ID, 0.016" Stainless Steel Insulation Jacketing	32.08	4.34
22 07 19 00-1014	LF		8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	33.30	4.43
22 07 19 00-1015	LF		9" ID, 0.016" Stainless Steel Insulation Jacketing	34.54	4.51
22 07 19 00-1016	LF		9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	35.77	4.60
22 07 19 00-1017	LF		10" ID, 0.016" Stainless Steel Insulation Jacketing	37.02	4.69
22 07 19 00-1018	LF		10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	38.31	4.79
22 07 19 00-1019	LF		11" ID, 0.016" Stainless Steel Insulation Jacketing	39.59	4.89
22 07 19 00-1020	LF		12" ID, 0.016" Stainless Steel Insulation Jacketing	42.21	5.10
22 07 19 00-1021	LF		13" ID, 0.016" Stainless Steel Insulation Jacketing	44.77	5.29
22 07 19 00-1022	LF		14" ID, 0.016" Stainless Steel Insulation Jacketing	46.86	5.37

22 07 19 00-1023

Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)

22 07 19 00-1024	EA		2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	31.86	4.17
22 07 19 00-1025	EA		2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	32.27	4.27
22 07 19 00-1026	EA		3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.39	4.38
22 07 19 00-1027	EA		3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.84	4.49
22 07 19 00-1028	EA		3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	34.96	4.57
22 07 19 00-1029	EA		3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.22	4.65
22 07 19 00-1030	EA		4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.48	4.78
22 07 19 00-1031	EA		4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.22	4.86
22 07 19 00-1032	EA		4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.58	4.96
22 07 19 00-1033	EA		5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	46.95	5.15
22 07 19 00-1034	EA		5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	60.95	5.41
22 07 19 00-1035	EA		6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	65.97	5.70
22 07 19 00-1036	EA		6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	83.52	6.04
22 07 19 00-1037	EA		7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	84.09	6.18
22 07 19 00-1038	EA		7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	94.63	6.33
22 07 19 00-1039	EA		8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	95.58	6.57
22 07 19 00-1040	EA		8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.94	6.57
22 07 19 00-1041	EA		9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	135.95	6.73
22 07 19 00-1042	EA		9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.41	6.82
22 07 19 00-1043	EA		10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.78	6.91
22 07 19 00-1044	EA		10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	156.19	7.00
22 07 19 00-1045	EA		11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	150.75	7.10
22 07 19 00-1046	EA		12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	168.50	7.39
22 07 19 00-1047	EA		13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	223.35	7.73
22 07 19 00-1048	EA		14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	225.59	7.96
22 07 19 00-1049	EA		2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.33	4.17
22 07 19 00-1050	EA		2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.74	4.27
22 07 19 00-1051	EA		3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.13	4.38
22 07 19 00-1052	EA		3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.58	4.49
22 07 19 00-1053	EA		3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.06	4.57
22 07 19 00-1054	EA		3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.38	4.65
22 07 19 00-1055	EA		4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.83	4.78
22 07 19 00-1056	EA		4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.35	4.86
22 07 19 00-1057	EA		4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.71	4.96
22 07 19 00-1058	EA		4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	45.09	5.05
22 07 19 00-1059	EA		5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	45.90	5.15
22 07 19 00-1060	EA		5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	46.97	5.41
22 07 19 00-1061	EA		6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.87	5.70
22 07 19 00-1062	EA		6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	54.18	6.04
22 07 19 00-1063	EA		7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	75.53	6.18
22 07 19 00-1064	EA		7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	77.17	6.33
22 07 19 00-1065	EA		8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	77.48	6.41
22 07 19 00-1066	EA		8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	86.94	6.57
22 07 19 00-1067	EA		9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.61	6.73
22 07 19 00-1068	EA		9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.52	6.82
22 07 19 00-1069	EA		10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.89	6.91
22 07 19 00-1070	EA		10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	113.63	7.00
22 07 19 00-1071	EA		11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	114.01	7.10
22 07 19 00-1072	EA		12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	122.57	7.39
22 07 19 00-1073	EA		13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	140.31	7.73



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1074			Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)		
22 07 19 00-1075			20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1076	LF		1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.70	1.94
22 07 19 00-1077	LF		2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.30	2.02
22 07 19 00-1078	LF		2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.85	2.10
22 07 19 00-1079	LF		3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.50	2.19
22 07 19 00-1080	LF		3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.12	2.28
22 07 19 00-1081	LF		4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.80	2.38
22 07 19 00-1082	LF		4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.52	2.51
22 07 19 00-1083	LF		5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.25	2.63
22 07 19 00-1084	LF		5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.07	2.77
22 07 19 00-1085	LF		6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.95	2.92
22 07 19 00-1086	LF		6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.55	3.00
22 07 19 00-1087	LF		7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.13	3.09
22 07 19 00-1088	LF		7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.89	3.20
22 07 19 00-1089	LF		8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.36	3.26
22 07 19 00-1090	LF		8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.88	3.32
22 07 19 00-1091	LF		9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.39	3.39
22 07 19 00-1092	LF		9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.93	3.45
22 07 19 00-1093	LF		10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.45	3.52
22 07 19 00-1094	LF		10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.00	3.60
22 07 19 00-1095	LF		11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.56	3.67
22 07 19 00-1096	LF		11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.15	3.75
22 07 19 00-1097	LF		12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.70	3.83
22 07 19 00-1098	LF		12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.34	3.92
22 07 19 00-1099	LF		13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.82	3.98
22 07 19 00-1100	LF		13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.09	3.98
22 07 19 00-1101	LF		14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.60	4.04
22 07 19 00-1102	LF		15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.39	4.10
22 07 19 00-1103	LF		16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.14	4.17
22 07 19 00-1104	LF		17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.94	4.24
22 07 19 00-1105	LF		18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.75	4.31
22 07 19 00-1106	LF		19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.54	4.38
22 07 19 00-1107	LF		20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.37	4.45
22 07 19 00-1108	LF		21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.17	4.53
22 07 19 00-1109	LF		22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.02	4.61
22 07 19 00-1110	LF		23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.85	4.69
22 07 19 00-1111	LF		24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.72	4.78
22 07 19 00-1112	LF		25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.62	4.86
22 07 19 00-1113	LF		26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.47	4.96
22 07 19 00-1114	LF		27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.39	5.05
22 07 19 00-1115	LF		28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.27	5.15
22 07 19 00-1116	LF		29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.23	5.25
22 07 19 00-1117	LF		30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.19	5.36
22 07 19 00-1118			30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1119	LF		2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.87	2.02
22 07 19 00-1120	LF		2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.57	2.10
22 07 19 00-1121	LF		3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.34	2.19
22 07 19 00-1122	LF		3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.08	2.28
22 07 19 00-1123	LF		4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.87	2.38
22 07 19 00-1124	LF		4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.70	2.51
22 07 19 00-1125	LF		5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.58	2.63
22 07 19 00-1126	LF		5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.77
22 07 19 00-1127	LF		6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.51	2.92
22 07 19 00-1128	LF		6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.22	3.00
22 07 19 00-1129	LF		7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.96	3.09
22 07 19 00-1130	LF		7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.84	3.20
22 07 19 00-1131	LF		8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.46	3.26
22 07 19 00-1132	LF		8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.09	3.32
22 07 19 00-1133	LF		9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.72	3.39
22 07 19 00-1134	LF		9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.37	3.45
22 07 19 00-1135	LF		10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.04	3.52
22 07 19 00-1136	LF		10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.70	3.60
22 07 19 00-1137	LF		11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.39	3.67
22 07 19 00-1138	LF		11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.09	3.75
22 07 19 00-1139	LF		12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.79	3.83
22 07 19 00-1140	LF		12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.55	3.92
22 07 19 00-1141	LF		13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.18	3.98
22 07 19 00-1142	LF		13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.56	3.98
22 07 19 00-1143	LF		14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.18	4.04
22 07 19 00-1144	LF		15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.20	4.10
22 07 19 00-1145	LF		16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.22	4.17
22 07 19 00-1146	LF		17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.25	4.24
22 07 19 00-1147	LF		18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.33	4.31
22 07 19 00-1148	LF		19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.38	4.38
22 07 19 00-1149	LF		20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.45	4.45
22 07 19 00-1150	LF		21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	34.51	4.53
22 07 19 00-1151	LF		22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.59	4.61



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1152	LF			23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.69	4.69
22 07 19 00-1153	LF			24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	37.79	4.78
22 07 19 00-1154	LF			25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.95	4.86
22 07 19 00-1155	LF			26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.07	4.96
22 07 19 00-1156	LF			27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.21	5.05
22 07 19 00-1157	LF			28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	42.37	5.15
22 07 19 00-1158	LF			29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.55	5.25
22 07 19 00-1159	LF			30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.74	5.36
22 07 19 00-1160				Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings <small>(22 07 19 00-1074)</small>		
22 07 19 00-1161	EA			1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	17.66	3.89
22 07 19 00-1162	EA			2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1163	EA			2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1164	EA			2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	19.87	4.17
22 07 19 00-1165	EA			2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1166	EA			3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1167	EA			3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1168	EA			3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1169	EA			4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1170	EA			4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1171	EA			5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1172	EA			5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1173	EA			6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	41.53	5.84
22 07 19 00-1174	EA			6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1175	EA			7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1176	EA			7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1177	EA			8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1178	EA			9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1179	EA			10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	76.67	7.10
22 07 19 00-1180	EA			11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	84.93	7.39
22 07 19 00-1181	EA			12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	100.77	7.73
22 07 19 00-1182	EA			14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	111.69	7.96
22 07 19 00-1183	EA			15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	118.64	8.21
22 07 19 00-1184	EA			16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	127.02	8.34
22 07 19 00-1185	EA			17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	137.81	8.47
22 07 19 00-1186	EA			18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	168.51	8.61
22 07 19 00-1187	EA			19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	217.02	8.75
22 07 19 00-1188	EA			20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	269.52	8.90
22 07 19 00-1189	EA			1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.66	3.89
22 07 19 00-1190	EA			2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1191	EA			2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1192	EA			2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.87	4.17
22 07 19 00-1193	EA			2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1194	EA			3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1195	EA			3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1196	EA			3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1197	EA			4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1198	EA			4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1199	EA			5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1200	EA			5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1201	EA			6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.53	5.84
22 07 19 00-1202	EA			6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1203	EA			7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1204	EA			7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1205	EA			8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1206	EA			9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1207	EA			10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	76.64	7.10
22 07 19 00-1208	EA			11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	82.79	7.39
22 07 19 00-1209	EA			12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	90.28	7.73
22 07 19 00-1210	EA			14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	99.68	7.96
22 07 19 00-1211	EA			15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	105.64	8.21
22 07 19 00-1212	EA			16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	116.49	8.34
22 07 19 00-1213	EA			17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	127.51	8.47
22 07 19 00-1214	EA			18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	148.87	8.61
22 07 19 00-1215	EA			19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	191.08	8.75
22 07 19 00-1216	EA			20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	212.38	8.90
22 07 19 00-1217	EA			1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	25.85	5.47
22 07 19 00-1218	EA			2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.85	5.58
22 07 19 00-1219	EA			2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	27.97	5.77
22 07 19 00-1220	EA			2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.21	5.97
22 07 19 00-1221	EA			2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.59	6.18
22 07 19 00-1222	EA			3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.99	6.41
22 07 19 00-1223	EA			3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.91	6.65
22 07 19 00-1224	EA			3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.96	6.91
22 07 19 00-1225	EA			4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	38.62	7.19
22 07 19 00-1226	EA			4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	42.25	7.51
22 07 19 00-1227	EA			5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	46.08	7.84
22 07 19 00-1228	EA			5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	52.92	8.34
22 07 19 00-1229	EA			6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	60.73	8.75
22 07 19 00-1230	EA			6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.42	8.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1231	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.27	9.22
22 07 19 00-1232	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	95.27	9.73
22 07 19 00-1233	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	108.97	10.10
22 07 19 00-1234	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	122.87	10.50
22 07 19 00-1235	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	125.58	10.95
22 07 19 00-1236	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	135.59	11.18
22 07 19 00-1237	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	145.64	11.42
22 07 19 00-1238	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	155.81	11.67
22 07 19 00-1239	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	165.90	11.94
22 07 19 00-1240	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	176.13	12.21
22 07 19 00-1241	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	186.29	12.51
22 07 19 00-1242	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	201.25	12.81
22 07 19 00-1243	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	216.18	13.13
22 07 19 00-1244	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	234.19	13.47
22 07 19 00-1245	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1246	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1247	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1248	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1249	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.30	4.04
22 07 19 00-1250	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	53.61	4.21
22 07 19 00-1251	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.74	4.38
22 07 19 00-1252	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	65.98	4.57
22 07 19 00-1253	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	72.27	4.78
22 07 19 00-1254	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	87.10	5.25
22 07 19 00-1255	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	120.98	5.84
22 07 19 00-1256	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	132.59	6.57
22 07 19 00-1257	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	164.05	7.00
22 07 19 00-1258	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	226.55	7.73
22 07 19 00-1259	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	228.33	8.08
22 07 19 00-1260	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	299.90	8.34
22 07 19 00-1261	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	401.04	8.61
22 07 19 00-1262	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1263	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1264	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1265	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1266	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.68	4.04
22 07 19 00-1267	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	49.57	4.21
22 07 19 00-1268	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.31	4.38
22 07 19 00-1269	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	57.10	4.57
22 07 19 00-1270	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	66.39	4.78
22 07 19 00-1271	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	79.82	5.25
22 07 19 00-1272	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	110.26	5.84
22 07 19 00-1273	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	120.84	6.57
22 07 19 00-1274	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	149.10	7.00
22 07 19 00-1275	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	205.16	7.73
22 07 19 00-1276	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	258.99	8.08
22 07 19 00-1277	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	307.95	8.34
22 07 19 00-1278	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	358.56	8.61
22 07 19 00-1279	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1280	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1281	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1282	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1283	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	67.21	6.04
22 07 19 00-1284	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	72.91	6.26
22 07 19 00-1285	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	79.85	6.57
22 07 19 00-1286	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	84.07	6.82
22 07 19 00-1287	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	98.12	7.19
22 07 19 00-1288	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	107.75	7.84
22 07 19 00-1289	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	148.03	8.75
22 07 19 00-1290	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	161.40	9.73
22 07 19 00-1291	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	218.91	10.50
22 07 19 00-1292	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	299.95	11.42
22 07 19 00-1293	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	355.99	12.21
22 07 19 00-1294	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	418.44	12.51
22 07 19 00-1295	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	457.13	12.81

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)

22 11 16 Domestic Water Piping ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0001				Galvanized Steel Pipe Assemblies <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
22 11 16 00-0002	LF			1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 21.40 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 5.33 <i>For ASTM 120, Deduct</i> -0.63 <i>For Work In Restricted Working Space, Add</i> 5.16		5.19
22 11 16 00-0003	LF			3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 23.35 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 5.96 <i>For ASTM 120, Deduct</i> -0.77 <i>For Work In Restricted Working Space, Add</i> 5.46		5.57
22 11 16 00-0004	LF			1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 26.21 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 6.93 <i>For ASTM 120, Deduct</i> -1.01 <i>For Work In Restricted Working Space, Add</i> 5.84		6.10
22 11 16 00-0005	LF			1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 30.32 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 8.48 <i>For ASTM 120, Deduct</i> -1.45 <i>For Work In Restricted Working Space, Add</i> 6.20		6.36
22 11 16 00-0006	LF			1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 32.53 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 9.25 <i>For ASTM 120, Deduct</i> -1.65 <i>For Work In Restricted Working Space, Add</i> 6.47		7.53
22 11 16 00-0007	LF			2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 39.01 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 11.42 <i>For ASTM 120, Deduct</i> -2.17 <i>For Work In Restricted Working Space, Add</i> 7.36		9.07
22 11 16 00-0008	LF			2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 55.95 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 17.99 <i>For ASTM 120, Deduct</i> -4.08 <i>For Work In Restricted Working Space, Add</i> 8.62		10.76
22 11 16 00-0009	LF			3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 68.72 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 22.22 <i>For ASTM 120, Deduct</i> -5.09 <i>For Work In Restricted Working Space, Add</i> 10.45		14.40
22 11 16 00-0010	LF			4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 101.37 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 36.66 <i>For ASTM 120, Deduct</i> -9.83 <i>For Work In Restricted Working Space, Add</i> 10.75		15.33
22 11 16 00-0011	LF			5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 181.64 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 70.92 <i>For ASTM 120, Deduct</i> -20.76 <i>For Work In Restricted Working Space, Add</i> 12.98		19.59
22 11 16 00-0012	LF			6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 215.17 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 84.54 <i>For ASTM 120, Deduct</i> -24.90 <i>For Work In Restricted Working Space, Add</i> 14.75		23.17
22 11 16 00-0013				Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014				Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF			1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 9.97 <i>For Schedule 80 Pipe, Add</i> 1.80 <i>For ASTM 120, Deduct</i> -0.32 <i>For Work In Restricted Working Space, Add</i> 2.36		5.19
22 11 16 00-0016	LF			3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 11.16 <i>For Schedule 80 Pipe, Add</i> 2.18 <i>For ASTM 120, Deduct</i> -0.42 <i>For Work In Restricted Working Space, Add</i> 2.51		5.57

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0017 LF 1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	13.21	6.10
For Schedule 80 Pipe, Add	2.90	
For ASTM 120, Deduct	-0.62	
For Work In Restricted Working Space, Add	2.72	
22 11 16 00-0018 LF 1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	15.23	6.36
For Schedule 80 Pipe, Add	3.66	
For ASTM 120, Deduct	-0.84	
For Work In Restricted Working Space, Add	2.88	
22 11 16 00-0019 LF 1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	18.00	7.53
For Schedule 80 Pipe, Add	4.35	
For ASTM 120, Deduct	-1.01	
For Work In Restricted Working Space, Add	3.38	
22 11 16 00-0020 LF 2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	22.67	9.07
For Schedule 80 Pipe, Add	5.69	
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0021 LF 2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	30.52	10.76
For Schedule 80 Pipe, Add	8.49	
For ASTM 120, Deduct	-2.15	
For Work In Restricted Working Space, Add	4.86	
22 11 16 00-0022 LF 3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	40.34	14.40
For Schedule 80 Pipe, Add	11.15	
For ASTM 120, Deduct	-2.81	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0023 LF 4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	49.72	15.33
For Schedule 80 Pipe, Add	15.10	
For ASTM 120, Deduct	-4.00	
For Work In Restricted Working Space, Add	6.92	
22 11 16 00-0024 LF 5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	65.10	19.59
For Schedule 80 Pipe, Add	20.10	
For ASTM 120, Deduct	-5.36	
For Work In Restricted Working Space, Add	8.80	
22 11 16 00-0025 LF 6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	81.08	23.17
For Schedule 80 Pipe, Add	25.73	
For ASTM 120, Deduct	-6.96	
For Work In Restricted Working Space, Add	10.41	
22 11 16 00-0026 LF 8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	92.03	28.01
For Schedule 80 Pipe, Add	28.24	
For ASTM 120, Deduct	-7.52	
For Work In Restricted Working Space, Add	12.58	
22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013)		
Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028 LF 1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	11.83	5.19
For Schedule 80 Pipe, Add	2.69	
For ASTM 120, Deduct	-0.60	
For Work In Restricted Working Space, Add	2.36	
22 11 16 00-0029 LF 3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	13.13	5.57
For Schedule 80 Pipe, Add	3.12	
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	2.51	
22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	14.59	6.10
For Schedule 80 Pipe, Add	3.56	
For ASTM 120, Deduct	-0.83	
For Work In Restricted Working Space, Add	2.72	
22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	16.56	6.36
For Schedule 80 Pipe, Add	4.30	
For ASTM 120, Deduct	-1.04	
For Work In Restricted Working Space, Add	2.88	
22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	19.22	7.53
For Schedule 80 Pipe, Add	4.94	
For ASTM 120, Deduct	-1.19	
For Work In Restricted Working Space, Add	3.38	
22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	22.69	9.07
For Schedule 80 Pipe, Add	5.70	
For ASTM 120, Deduct	-1.36	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	31.34	10.76
For Schedule 80 Pipe, Add	8.88	
For ASTM 120, Deduct	-2.27	
For Work In Restricted Working Space, Add	4.86	
22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	40.11	14.40
For Schedule 80 Pipe, Add	11.04	
For ASTM 120, Deduct	-2.78	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0036 LF 4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	49.51	15.33
For Schedule 80 Pipe, Add	15.00	
For ASTM 120, Deduct	-3.97	
For Work In Restricted Working Space, Add	6.92	
22 11 16 00-0037 LF 5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	63.86	19.59
For Schedule 80 Pipe, Add	19.50	
For ASTM 120, Deduct	-5.18	
For Work In Restricted Working Space, Add	8.80	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0038	LF			6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	78.86 24.67 -6.62 10.41	23.17
22 11 16 00-0039				Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0040	EA			1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.02 20.57 -0.82 10.37	23.08
22 11 16 00-0041	EA			3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	45.39 25.03 -1.00 11.61	25.81
22 11 16 00-0042	EA			1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.59 44.65 -1.86 12.97	28.78
22 11 16 00-0043	EA			1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	68.47 69.37 -2.93 14.68	32.68
22 11 16 00-0044	EA			1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.69 90.04 -3.83 16.55	36.83
22 11 16 00-0045	EA			2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	111.87 146.26 -6.27 21.03	46.81
22 11 16 00-0046	EA			2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	213.08 377.98 -16.40 31.12	69.25
22 11 16 00-0047	EA			3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	316.76 621.07 -27.04 40.95	91.03
22 11 16 00-0048	EA			4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	452.43 1,089.07 -47.69 40.35	89.68
22 11 16 00-0049	EA			5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,513.37 4,676.72 -205.95 42.10	93.60
22 11 16 00-0050	EA			6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,412.51 4,312.49 -189.87 44.02	97.87
22 11 16 00-0051	EA			8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,680.41 5,201.31 -229.06 46.00	102.27
22 11 16 00-0052				Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0053	EA			3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	48.26 -1.74 11.00	24.38
22 11 16 00-0054	EA			1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.87 -2.24 12.29	27.36
22 11 16 00-0055	EA			1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.71 -2.37 11.67	25.94
22 11 16 00-0056	EA			1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	71.08 -3.75 13.82	30.73
22 11 16 00-0057	EA			1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.83 -4.50 13.14	29.18
22 11 16 00-0058	EA			1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.56 -4.77 12.53	27.88
22 11 16 00-0059	EA			1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	91.99 -5.99 15.62	34.75
22 11 16 00-0060	EA			1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	89.14 -5.99 14.76	32.81
22 11 16 00-0061	EA			1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	86.88 -5.99 14.08	31.25

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	109.30	41.75
For ASTM 120, Deduct	-7.00	
For Work In Restricted Working Space, Add	18.79	
22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	113.00	39.68
For ASTM 120, Deduct	-8.02	
For Work In Restricted Working Space, Add	17.85	
22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	112.15	37.74
For ASTM 120, Deduct	-8.33	
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	96.50	36.31
For ASTM 120, Deduct	-6.32	
For Work In Restricted Working Space, Add	16.32	
22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	245.07	57.97
For ASTM 120, Deduct	-23.72	
For Work In Restricted Working Space, Add	26.08	
22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	255.66	53.04
For ASTM 120, Deduct	-26.43	
For Work In Restricted Working Space, Add	23.84	
22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	407.56	80.14
For ASTM 120, Deduct	-43.12	
For Work In Restricted Working Space, Add	36.04	
22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	352.95	68.85
For ASTM 120, Deduct	-37.45	
For Work In Restricted Working Space, Add	30.99	
22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	778.35	85.30
For ASTM 120, Deduct	-97.56	
For Work In Restricted Working Space, Add	38.38	
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)		
22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	40.51	23.08
For 300 LB Rating, Add	22.24	
For ASTM 120, Deduct	-0.89	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	47.23	25.81
For 300 LB Rating, Add	31.29	
For ASTM 120, Deduct	-1.28	
For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	52.84	28.78
For 300 LB Rating, Add	35.30	
For ASTM 120, Deduct	-1.44	
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	66.90	32.68
For 300 LB Rating, Add	64.03	
For ASTM 120, Deduct	-2.70	
For Work In Restricted Working Space, Add	14.68	
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	76.29	36.83
For 300 LB Rating, Add	75.08	
For ASTM 120, Deduct	-3.17	
For Work In Restricted Working Space, Add	16.55	
22 11 16 00-0077 EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	101.33	46.81
For 300 LB Rating, Add	110.42	
For ASTM 120, Deduct	-4.69	
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0078 EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	212.44	69.25
For 300 LB Rating, Add	375.80	
For ASTM 120, Deduct	-16.31	
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0079 EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	294.59	91.03
For 300 LB Rating, Add	545.70	
For ASTM 120, Deduct	-23.71	
For Work In Restricted Working Space, Add	40.95	
22 11 16 00-0080 EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	399.52	89.68
For 300 LB Rating, Add	909.17	
For ASTM 120, Deduct	-39.75	
For Work In Restricted Working Space, Add	40.35	
22 11 16 00-0081 EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,211.28	93.60
For 300 LB Rating, Add	3,649.62	
For ASTM 120, Deduct	-160.64	
For Work In Restricted Working Space, Add	42.10	
22 11 16 00-0082 EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,438.03	97.87
For 300 LB Rating, Add	4,399.26	
For ASTM 120, Deduct	-193.70	
For Work In Restricted Working Space, Add	44.02	
22 11 16 00-0083 EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,708.97	102.27
For 300 LB Rating, Add	5,298.41	
For ASTM 120, Deduct	-233.35	
For Work In Restricted Working Space, Add	46.00	
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)		
22 11 16 00-0085 EA 1/2", 150 LB, Galvanized Malleable Iron Tee.....	49.92	28.78
For 300 LB Rating, Add	25.37	
For ASTM 120, Deduct	-1.01	
For Work In Restricted Working Space, Add	12.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0086 EA 3/4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	60.93 40.60 -1.66 14.96	33.33
22 11 16 00-0087 EA 1", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	76.82 64.33 -2.68 17.68	39.30
22 11 16 00-0088 EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.47 100.70 -4.26 21.03	46.81
22 11 16 00-0089 EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	118.93 124.94 -5.29 25.10	55.76
22 11 16 00-0090 EA 2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	161.07 201.15 -8.60 31.12	69.25
22 11 16 00-0091 EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	274.17 555.56 -24.21 33.83	75.21
22 11 16 00-0092 EA 3", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	325.78 651.74 -28.39 40.95	91.03
22 11 16 00-0093 EA 4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	617.67 1,532.65 -67.17 50.97	113.32
22 11 16 00-0094 EA 5", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,609.28 4,797.74 -211.13 60.52	134.53
22 11 16 00-0095 EA 6", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,827.04 5,441.87 -239.47 69.17	153.78
22 11 16 00-0096 EA 8", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,173.58 6,466.09 -284.54 83.00	182.60
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)		
22 11 16 00-0098 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.81 55.60 -2.34 12.97	28.78
22 11 16 00-0099 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.24 55.25 -2.31 14.96	33.33
22 11 16 00-0100 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.54 76.98 -3.24 17.68	39.30
22 11 16 00-0101 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	103.59 118.11 -5.03 21.03	46.81
22 11 16 00-0102 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	125.03 145.68 -6.21 25.10	55.76
22 11 16 00-0103 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	164.14 211.58 -9.06 31.12	69.25
22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	326.44 732.11 -32.00 33.93	75.47
22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	415.34 949.03 -41.50 41.60	92.46
22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	971.94 2,737.16 -120.31 50.97	113.32

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,154.97 6,653.09 -292.98 60.52	134.53
22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,340.62 7,188.04 -316.51 69.17	153.78
22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,809.32 8,666.12 -381.63 79.54	176.59
22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.57 22.44 -0.90 10.37	23.08
22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	45.61 25.78 -1.04 11.61	25.81
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.53 41.05 -1.70 12.97	28.78
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	64.88 57.17 -2.39 14.68	32.68
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.31 64.95 -2.72 16.55	36.83
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	96.60 94.34 -3.98 21.03	46.81
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	184.89 282.13 -12.17 31.12	69.25
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	244.96 376.95 -16.27 40.95	91.03
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	364.84 791.26 -34.55 40.35	89.68
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	788.95 2,213.69 -97.29 42.10	93.60
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	885.66 2,521.20 -110.84 44.02	97.87
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,043.90 3,037.17 -133.59 46.00	102.27
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.85 26.79 -1.09 10.37	23.08
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	46.48 28.74 -1.17 11.61	25.81
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	56.17 46.62 -1.94 12.97	28.78
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.67 59.85 -2.51 14.68	32.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	76.77	36.83
For 300 LB Rating, Add	76.72	
For ASTM 120, Deduct	-3.24	
For Work In Restricted Working Space, Add	16.55	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	99.54	46.81
For 300 LB Rating, Add	104.34	
For ASTM 120, Deduct	-4.42	
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	185.92	69.25
For 300 LB Rating, Add	285.64	
For ASTM 120, Deduct	-12.33	
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	241.89	91.03
For 300 LB Rating, Add	366.52	
For ASTM 120, Deduct	-15.81	
For Work In Restricted Working Space, Add	40.95	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	370.77	89.68
For 300 LB Rating, Add	811.42	
For ASTM 120, Deduct	-35.44	
For Work In Restricted Working Space, Add	40.35	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	823.09	93.60
For 300 LB Rating, Add	2,329.77	
For ASTM 120, Deduct	-102.41	
For Work In Restricted Working Space, Add	42.10	
22 11 16 00-0134 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	924.55	97.87
For 300 LB Rating, Add	2,653.43	
For ASTM 120, Deduct	-116.67	
For Work In Restricted Working Space, Add	44.02	
22 11 16 00-0135 EA 8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,091.12	102.27
For 300 LB Rating, Add	3,197.72	
For ASTM 120, Deduct	-140.67	
For Work In Restricted Working Space, Add	46.00	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137 EA 1/2", 150 LB, Galvanized Malleable Iron Cap	18.45	10.76
For 300 LB Rating, Add	8.59	
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	4.86	
22 11 16 00-0138 EA 3/4", 150 LB, Galvanized Malleable Iron Cap	20.39	11.54
For 300 LB Rating, Add	11.58	
For ASTM 120, Deduct	-0.47	
For Work In Restricted Working Space, Add	5.19	
22 11 16 00-0139 EA 1", 150 LB, Galvanized Malleable Iron Cap	23.79	13.36
For 300 LB Rating, Add	14.25	
For ASTM 120, Deduct	-0.58	
For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap	25.98	14.00
For 300 LB Rating, Add	18.46	
For ASTM 120, Deduct	-0.76	
For Work In Restricted Working Space, Add	6.28	
22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap	25.66	14.00
For 300 LB Rating, Add	17.37	
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	6.28	
22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap	38.03	18.54
For 300 LB Rating, Add	36.15	
For ASTM 120, Deduct	-1.52	
For Work In Restricted Working Space, Add	8.37	
22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap	57.34	23.08
For 300 LB Rating, Add	79.46	
For ASTM 120, Deduct	-3.41	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap	74.23	27.88
For 300 LB Rating, Add	112.67	
For ASTM 120, Deduct	-4.86	
For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap	106.68	30.78
For 300 LB Rating, Add	208.67	
For ASTM 120, Deduct	-9.08	
For Work In Restricted Working Space, Add	13.84	
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap	258.69	38.50
For 300 LB Rating, Add	687.03	
For ASTM 120, Deduct	-30.16	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap	322.07	45.76
For 300 LB Rating, Add	865.65	
For ASTM 120, Deduct	-38.01	
For Work In Restricted Working Space, Add	20.60	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap	405.04	51.13
For 300 LB Rating, Add	1,121.09	
For ASTM 120, Deduct	-49.26	
For Work In Restricted Working Space, Add	23.00	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0149			Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)		
22 11 16 00-0150	EA	1/2"	150 LB, Galvanized Malleable Iron Union.....	59.55	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0151	EA	3/4"	150 LB, Galvanized Malleable Iron Union.....	68.63	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
22 11 16 00-0152	EA	1"	150 LB, Galvanized Malleable Iron Union.....	83.51	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
22 11 16 00-0153	EA	1-1/4"	150 LB, Galvanized Malleable Iron Union	105.61	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0154	EA	1-1/2"	150 LB, Galvanized Malleable Iron Union	126.70	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 11 16 00-0155	EA	2"	150 LB, Galvanized Malleable Iron Union.....	153.22	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0156	EA	2-1/2"	150 LB, Galvanized Malleable Iron Union	325.01	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
22 11 16 00-0157	EA	3"	150 LB, Galvanized Malleable Iron Union.....	442.05	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
22 11 16 00-0158	EA	1/2"	250 LB, Galvanized Malleable Iron Union.....	76.42	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0159	EA	3/4"	250 LB, Galvanized Malleable Iron Union.....	80.04	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
22 11 16 00-0160	EA	1"	250 LB, Galvanized Malleable Iron Union.....	96.33	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
22 11 16 00-0161	EA	1-1/4"	250 LB, Galvanized Malleable Iron Union	126.73	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0162	EA	1-1/2"	250 LB, Galvanized Malleable Iron Union	148.86	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 11 16 00-0163	EA	2"	250 LB, Galvanized Malleable Iron Union.....	195.82	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0164	EA	2-1/2"	250 LB, Galvanized Malleable Iron Union	395.37	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
22 11 16 00-0165	EA	3"	250 LB, Galvanized Malleable Iron Union.....	573.15	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
22 11 16 00-0166	EA	4"	250 LB, Galvanized Malleable Iron Union.....	781.53	132.34
			<i>For Work In Restricted Working Space, Add</i>	59.56	
22 11 16 00-0167	EA	1/2"	300 LB, Galvanized Malleable Iron Union.....	81.05	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0168	EA	3/4"	300 LB, Galvanized Malleable Iron Union.....	90.89	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
22 11 16 00-0169	EA	1"	300 LB, Galvanized Malleable Iron Union.....	113.35	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
22 11 16 00-0170	EA	1-1/4"	300 LB, Galvanized Malleable Iron Union	145.97	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0171	EA	1-1/2"	300 LB, Galvanized Malleable Iron Union	175.03	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 11 16 00-0172	EA	2"	300 LB, Galvanized Malleable Iron Union.....	213.41	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0173	EA	2-1/2"	300 LB, Galvanized Malleable Iron Union	459.05	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
22 11 16 00-0174	EA	3"	300 LB, Galvanized Malleable Iron Union.....	718.88	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
22 11 16 00-0175	EA	4"	300 LB, Galvanized Malleable Iron Union.....	1,496.14	132.34
			<i>For Work In Restricted Working Space, Add</i>	59.56	
22 11 16 00-0176			Galvanized Steel Nipples (22 11 16 00-0013)		
			Note: ASTM A-53.		
22 11 16 00-0177	EA	3/8" x Close,	Schedule 40 Galvanized Steel Nipple.....	20.84	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.64	
			<i>For ASTM 120, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0178	EA	1/2" x Close,	Schedule 40 Galvanized Steel Nipple.....	20.40	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.14	
			<i>For ASTM 120, Deduct</i>	-0.28	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0179	EA	3/4" x Close,	Schedule 40 Galvanized Steel Nipple.....	20.80	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For ASTM 120, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0180	EA	1" x Close,	Schedule 40 Galvanized Steel Nipple.....	23.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	3.57	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0181	EA	1-1/4" x Close,	Schedule 40 Galvanized Steel Nipple	25.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	4.78	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0182	EA	1-1/2" x Close,	Schedule 40 Galvanized Steel Nipple	26.53	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.61	
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	6.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple	34.83	18.54
			For Schedule 80 Nipples, Add	7.91	
			For ASTM 120, Deduct	-1.04	
			For Work In Restricted Working Space, Add	8.37	
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	55.23	23.08
			For Schedule 80 Nipples, Add	23.54	
			For ASTM 120, Deduct	-3.10	
			For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple	66.58	27.88
			For Schedule 80 Nipples, Add	28.22	
			For ASTM 120, Deduct	-3.71	
			For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple	83.21	30.78
			For Schedule 80 Nipples, Add	42.28	
			For ASTM 120, Deduct	-5.56	
			For Work In Restricted Working Space, Add	13.84	
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.18	12.31
			For Schedule 80 Nipples, Add	3.03	
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.50	12.31
			For Schedule 80 Nipples, Add	2.26	
			For ASTM 120, Deduct	-0.30	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.00	12.31
			For Schedule 80 Nipples, Add	2.83	
			For ASTM 120, Deduct	-0.37	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple	21.18	12.31
			For Schedule 80 Nipples, Add	3.03	
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	20.50	12.31
			For Schedule 80 Nipples, Add	2.26	
			For ASTM 120, Deduct	-0.30	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	21.00	12.31
			For Schedule 80 Nipples, Add	2.83	
			For ASTM 120, Deduct	-0.37	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple	23.64	13.36
			For Schedule 80 Nipples, Add	4.21	
			For ASTM 120, Deduct	-0.55	
			For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	26.11	14.40
			For Schedule 80 Nipples, Add	5.13	
			For ASTM 120, Deduct	-0.68	
			For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	26.89	14.40
			For Schedule 80 Nipples, Add	6.02	
			For ASTM 120, Deduct	-0.79	
			For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.07	12.31
			For Schedule 80 Nipples, Add	4.05	
			For ASTM 120, Deduct	-0.53	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.84	12.31
			For Schedule 80 Nipples, Add	2.64	
			For ASTM 120, Deduct	-0.35	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.26	12.31
			For Schedule 80 Nipples, Add	3.12	
			For ASTM 120, Deduct	-0.41	
			For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.94	13.36
			For Schedule 80 Nipples, Add	4.55	
			For ASTM 120, Deduct	-0.60	
			For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.55	14.40
			For Schedule 80 Nipples, Add	5.63	
			For ASTM 120, Deduct	-0.74	
			For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			For Schedule 80 Nipples, Add	6.71	
			For ASTM 120, Deduct	-0.88	
			For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.69	18.54
			For Schedule 80 Nipples, Add	8.89	
			For ASTM 120, Deduct	-1.17	
			For Work In Restricted Working Space, Add	8.37	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	22.07	12.31
			For Schedule 80 Nipples, Add	4.05	
			For ASTM 120, Deduct	-0.53	
			For Work In Restricted Working Space, Add	5.56	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.84	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.64	
			<i>For ASTM 120, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	21.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.12	
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	23.94	13.36
			<i>For Schedule 80 Nipples, Add</i>	4.55	
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	26.55	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.63	
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	35.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	8.89	
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	56.02	23.08
			<i>For Schedule 80 Nipples, Add</i>	24.44	
			<i>For ASTM 120, Deduct</i>	-3.22	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	69.98	27.88
			<i>For Schedule 80 Nipples, Add</i>	32.09	
			<i>For ASTM 120, Deduct</i>	-4.22	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.38	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.07	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.05	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.75	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.47	
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.48	
			<i>For ASTM 120, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	37.37	18.54
			<i>For Schedule 80 Nipples, Add</i>	10.81	
			<i>For ASTM 120, Deduct</i>	-1.42	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
			<i>For Schedule 80 Nipples, Add</i>	28.37	
			<i>For ASTM 120, Deduct</i>	-3.73	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
			<i>For Schedule 80 Nipples, Add</i>	37.65	
			<i>For ASTM 120, Deduct</i>	-4.95	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	21.38	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	24.75	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.47	
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	5.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0225 EA 1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
<i>For Schedule 80 Nipples, Add</i>	6.71	
<i>For ASTM 120, Deduct</i>	-0.88	
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0226 EA 1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
<i>For Schedule 80 Nipples, Add</i>	8.48	
<i>For ASTM 120, Deduct</i>	-1.12	
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0227 EA 2" x 4" Long, Schedule 40 Galvanized Steel Nipple	37.45	18.54
<i>For Schedule 80 Nipples, Add</i>	10.90	
<i>For ASTM 120, Deduct</i>	-1.43	
<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0228 EA 2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
<i>For Schedule 80 Nipples, Add</i>	28.37	
<i>For ASTM 120, Deduct</i>	-3.73	
<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0229 EA 3" x 4" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
<i>For Schedule 80 Nipples, Add</i>	37.65	
<i>For ASTM 120, Deduct</i>	-4.95	
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0230 EA 4" x 4" Long, Schedule 40 Galvanized Steel Nipple	90.47	30.78
<i>For Schedule 80 Nipples, Add</i>	50.56	
<i>For ASTM 120, Deduct</i>	-6.65	
<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0231 EA 3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
<i>For Schedule 80 Nipples, Add</i>	6.62	
<i>For ASTM 120, Deduct</i>	-0.87	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0232 EA 1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
<i>For Schedule 80 Nipples, Add</i>	3.93	
<i>For ASTM 120, Deduct</i>	-0.52	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0233 EA 3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.76	12.31
<i>For Schedule 80 Nipples, Add</i>	4.83	
<i>For ASTM 120, Deduct</i>	-0.64	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0234 EA 1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.84	13.36
<i>For Schedule 80 Nipples, Add</i>	6.71	
<i>For ASTM 120, Deduct</i>	-0.88	
<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0235 EA 1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
<i>For Schedule 80 Nipples, Add</i>	8.30	
<i>For ASTM 120, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0236 EA 1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
<i>For Schedule 80 Nipples, Add</i>	10.25	
<i>For ASTM 120, Deduct</i>	-1.35	
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0237 EA 2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	39.99	18.54
<i>For Schedule 80 Nipples, Add</i>	13.79	
<i>For ASTM 120, Deduct</i>	-1.82	
<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0238 EA 2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
<i>For Schedule 80 Nipples, Add</i>	31.64	
<i>For ASTM 120, Deduct</i>	-4.16	
<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0239 EA 3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	80.33	27.88
<i>For Schedule 80 Nipples, Add</i>	43.89	
<i>For ASTM 120, Deduct</i>	-5.78	
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0240 EA 4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	95.85	30.78
<i>For Schedule 80 Nipples, Add</i>	56.69	
<i>For ASTM 120, Deduct</i>	-7.46	
<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0241 EA 3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
<i>For Schedule 80 Nipples, Add</i>	6.62	
<i>For ASTM 120, Deduct</i>	-0.87	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0242 EA 1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
<i>For Schedule 80 Nipples, Add</i>	3.93	
<i>For ASTM 120, Deduct</i>	-0.52	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0243 EA 3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	22.76	12.31
<i>For Schedule 80 Nipples, Add</i>	4.83	
<i>For ASTM 120, Deduct</i>	-0.64	
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0244 EA 1" x 5" Long, Schedule 40 Galvanized Steel Nipple	25.84	13.36
<i>For Schedule 80 Nipples, Add</i>	6.71	
<i>For ASTM 120, Deduct</i>	-0.88	
<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0245 EA 1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
<i>For Schedule 80 Nipples, Add</i>	8.30	
<i>For ASTM 120, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	6.48	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
			<i>For Schedule 80 Nipples, Add</i>	10.25	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	39.99	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.79	
			<i>For ASTM 120, Deduct</i>	-1.82	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
			<i>For Schedule 80 Nipples, Add</i>	31.64	
			<i>For ASTM 120, Deduct</i>	-4.16	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	80.33	27.88
			<i>For Schedule 80 Nipples, Add</i>	43.89	
			<i>For ASTM 120, Deduct</i>	-5.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	95.85	30.78
			<i>For Schedule 80 Nipples, Add</i>	56.69	
			<i>For ASTM 120, Deduct</i>	-7.46	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	24.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.35	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.43	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	23.60	12.31
			<i>For Schedule 80 Nipples, Add</i>	5.79	
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	26.63	13.36
			<i>For Schedule 80 Nipples, Add</i>	7.62	
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	30.06	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.63	
			<i>For ASTM 120, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	31.73	14.40
			<i>For Schedule 80 Nipples, Add</i>	11.54	
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	41.95	18.54
			<i>For Schedule 80 Nipples, Add</i>	16.03	
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	65.07	23.08
			<i>For Schedule 80 Nipples, Add</i>	34.76	
			<i>For ASTM 120, Deduct</i>	-4.57	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	82.55	27.88
			<i>For Schedule 80 Nipples, Add</i>	46.42	
			<i>For ASTM 120, Deduct</i>	-6.11	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	101.10	30.78
			<i>For Schedule 80 Nipples, Add</i>	62.68	
			<i>For ASTM 120, Deduct</i>	-8.25	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	44.31	12.31
			<i>For Schedule 80 Nipples, Add</i>	29.40	
			<i>For ASTM 120, Deduct</i>	-3.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	25.42	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.87	
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	27.33	12.31
			<i>For Schedule 80 Nipples, Add</i>	10.04	
			<i>For ASTM 120, Deduct</i>	-1.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	31.12	13.36
			<i>For Schedule 80 Nipples, Add</i>	12.73	
			<i>For ASTM 120, Deduct</i>	-1.68	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	35.30	14.40
			<i>For Schedule 80 Nipples, Add</i>	15.61	
			<i>For ASTM 120, Deduct</i>	-2.05	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	37.32	14.40
			<i>For Schedule 80 Nipples, Add</i>	17.91	
			<i>For ASTM 120, Deduct</i>	-2.36	
			<i>For Work In Restricted Working Space, Add</i>	6.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.80 26.12 -3.44 8.37	18.54
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.83 44.75 -5.89 10.37	23.08
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	96.69 62.54 -8.23 12.55	27.88
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	111.73 74.80 -9.84 13.84	30.78
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.82 14.02 -1.85 5.56	12.31
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.71 9.34 -1.23 5.56	12.31
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.30 11.15 -1.47 5.56	12.31
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.72 14.56 -1.92 5.99	13.36
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.99 18.67 -2.46 6.48	14.40
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.92 20.87 -2.75 6.48	14.40
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.69 30.55 -4.02 8.37	18.54
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	79.31 50.99 -6.71 10.37	23.08
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	104.41 71.34 -9.39 12.55	27.88
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	122.15 86.67 -11.40 13.84	30.78
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.15 15.54 -2.04 5.56	12.31
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.84 10.62 -1.40 5.56	12.31
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.49 12.51 -1.65 5.56	12.31
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.81 16.94 -2.23 5.99	13.36
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.27 22.41 -2.95 6.48	14.40
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	42.56 23.88 -3.14 6.48	14.40
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.65 35.07 -4.61 8.37	18.54

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	84.64	23.08
For Schedule 80 Nipples, Add	57.07	
For ASTM 120, Deduct	-7.51	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	112.20	27.88
For Schedule 80 Nipples, Add	80.22	
For ASTM 120, Deduct	-10.56	
For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	132.68	30.78
For Schedule 80 Nipples, Add	98.68	
For ASTM 120, Deduct	-12.98	
For Work In Restricted Working Space, Add	13.84	
22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.33	9.21
For 300 LB Rating, Add	19.53	
For Work In Restricted Working Space, Add	4.15	
22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.98	10.37
For 300 LB Rating, Add	19.63	
For Work In Restricted Working Space, Add	4.64	
22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.32	11.54
For 300 LB Rating, Add	21.57	
For Work In Restricted Working Space, Add	5.18	
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	28.85	13.10
For 300 LB Rating, Add	32.73	
For Work In Restricted Working Space, Add	5.87	
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	34.57	14.66
For 300 LB Rating, Add	43.82	
For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	43.94	18.67
For 300 LB Rating, Add	55.74	
For Work In Restricted Working Space, Add	8.41	
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	72.51	27.62
For 300 LB Rating, Add	107.92	
For Work In Restricted Working Space, Add	12.45	
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	98.61	36.44
For 300 LB Rating, Add	152.88	
For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	145.14	35.85
For 300 LB Rating, Add	313.78	
For Work In Restricted Working Space, Add	16.14	
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	223.72	37.46
For 300 LB Rating, Add	573.14	
For Work In Restricted Working Space, Add	16.84	
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	239.86	39.07
For 300 LB Rating, Add	619.50	
For Work In Restricted Working Space, Add	17.61	
22 11 16 00-0303 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	49.81	24.38
For Work In Restricted Working Space, Add	11.00	
22 11 16 00-0305 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	54.64	25.94
For Work In Restricted Working Space, Add	11.67	
22 11 16 00-0306 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	55.88	27.36
For Work In Restricted Working Space, Add	12.29	
22 11 16 00-0307 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	63.79	27.88
For Work In Restricted Working Space, Add	12.53	
22 11 16 00-0308 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	63.85	29.18
For Work In Restricted Working Space, Add	13.14	
22 11 16 00-0309 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	66.12	30.73
For Work In Restricted Working Space, Add	13.82	
22 11 16 00-0310 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	74.01	29.95
For Work In Restricted Working Space, Add	13.46	
22 11 16 00-0311 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.07	31.25
For Work In Restricted Working Space, Add	14.08	
22 11 16 00-0312 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	75.47	32.81
For Work In Restricted Working Space, Add	14.76	
22 11 16 00-0313 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.29	34.75
For Work In Restricted Working Space, Add	15.62	
22 11 16 00-0314 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	88.72	34.88
For Work In Restricted Working Space, Add	15.70	
22 11 16 00-0315 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	88.25	36.31
For Work In Restricted Working Space, Add	16.32	
22 11 16 00-0316 EA 2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	88.65	37.74
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0317 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	91.51	39.68
For Work In Restricted Working Space, Add	17.85	
22 11 16 00-0318 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	90.71	41.75
For Work In Restricted Working Space, Add	18.79	
22 11 16 00-0319 EA 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	123.87	47.47
For Work In Restricted Working Space, Add	21.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0320	EA			2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	126.12 22.04	49.02
22 11 16 00-0321	EA			2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.98 22.90	50.84
22 11 16 00-0322	EA			2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.14 23.84	53.04
22 11 16 00-0323	EA			2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	132.70 26.08	57.97
22 11 16 00-0324	EA			3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.10 26.28	58.35
22 11 16 00-0325	EA			3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	159.35 26.96	59.91
22 11 16 00-0326	EA			3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	162.21 27.82	61.85
22 11 16 00-0327	EA			3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.98 28.76	63.93
22 11 16 00-0328	EA			3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	165.07 30.99	68.85
22 11 16 00-0329	EA			3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	185.48 36.04	80.14
22 11 16 00-0330	EA			4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	230.10 25.34	56.26
22 11 16 00-0331	EA			4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	232.10 25.94	57.64
22 11 16 00-0332	EA			4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	234.64 26.70	59.37
22 11 16 00-0333	EA			4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	237.41 27.53	61.22
22 11 16 00-0334	EA			4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	226.89 29.52	65.60
22 11 16 00-0335	EA			4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	259.00 34.01	75.62
22 11 16 00-0336	EA			4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	263.93 38.38	85.30
22 11 16 00-0337	Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>					
	Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.					
22 11 16 00-0338	EA			1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	76.90	47.39
22 11 16 00-0339	EA			3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.12	51.87
22 11 16 00-0340	EA			1", 150 LB, Galvanized Malleable Iron Floor Flange.....	96.11	58.61
22 11 16 00-0341	EA			1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	99.76	60.69
22 11 16 00-0342	EA			1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	108.56	66.01
22 11 16 00-0343	EA			2", 150 LB, Galvanized Malleable Iron Floor Flange.....	115.78	68.85
22 11 16 00-0344	Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>					
	Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.					
22 11 16 00-0345	EA			3/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	127.00 23.34	51.87
22 11 16 00-0346	EA			1", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	125.99 26.37	58.61
22 11 16 00-0347	EA			1-1/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	111.12 27.30	60.69
22 11 16 00-0348	EA			1-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	143.73 29.70	66.01
22 11 16 00-0349	EA			2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	142.65 30.99	68.85
22 11 16 00-0350	EA			2-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	165.52 35.85	79.75
22 11 16 00-0351	EA			3", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	275.92 45.49	101.15
22 11 16 00-0352	EA			4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	353.68 55.32	123.01
22 11 16 00-0353	EA			5", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	485.28 65.86	146.41
22 11 16 00-0354	EA			6", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	536.23 75.65	168.20
22 11 16 00-0355	EA			8", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	510.29 86.46	192.23
22 11 16 00-0356	Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>					
	Note: For use when connecting pipe to an existing in-place system.					
22 11 16 00-0357	EA			1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	42.25 12.68	
22 11 16 00-0358	EA			3/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	46.48 13.94	
22 11 16 00-0359	EA			1", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	50.71 15.21	
22 11 16 00-0360	EA			1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	54.93 16.48	
22 11 16 00-0361	EA			1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	57.74 17.32	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0362	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.56	
			<i>For Work In Restricted Working Space, Add</i>	18.17	
22 11 16 00-0363	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.38	
			<i>For Work In Restricted Working Space, Add</i>	19.01	
22 11 16 00-0364	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	66.19	
			<i>For Work In Restricted Working Space, Add</i>	19.86	
22 11 16 00-0365	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	69.01	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0366	EA		6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	74.64	
			<i>For Work In Restricted Working Space, Add</i>	22.39	
22 11 16 00-0367	EA		8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	80.27	
			<i>For Work In Restricted Working Space, Add</i>	24.08	
22 11 16 00-0368			Copper Pipe And Fittings ^(22 11 16)		
			Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369			Copper Tube/Pipe ^(22 11 16 00-0369)		
			Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370			Hard Drawn Type L Copper Tube/Pipe ^(22 11 16 00-0369)		
22 11 16 00-0371	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	5.95	3.17
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.10	
			<i>For Up To 20, Add</i>	0.63	
			<i>For >150, Deduct</i>	-0.12	
			<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0372	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	6.71	3.30
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.14	
			<i>For Up To 20, Add</i>	0.72	
			<i>For >150, Deduct</i>	-0.18	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0373	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	7.25	3.44
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.17	
			<i>For Up To 20, Add</i>	0.78	
			<i>For >150, Deduct</i>	-0.21	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0374	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	8.87	3.65
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.27	
			<i>For Up To 20, Add</i>	0.97	
			<i>For >150, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0375	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	11.06	4.10
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.39	
			<i>For Up To 20, Add</i>	1.23	
			<i>For >150, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0376	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	15.91	6.09
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
			<i>For Up To 20, Add</i>	1.76	
			<i>For >150, Deduct</i>	-0.68	
			<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0377	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	18.92	6.80
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.70	
			<i>For Up To 20, Add</i>	2.11	
			<i>For >150, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0378	LF		2" Hard Drawn Type L Copper Tube/Pipe.....	26.38	8.40
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.10	
			<i>For Up To 20, Add</i>	2.98	
			<i>For >150, Deduct</i>	-1.38	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0379	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	49.57	9.87
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.59	
			<i>For Up To 20, Add</i>	5.46	
			<i>For >150, Deduct</i>	-1.99	
			<i>For Work In Restricted Working Space, Add</i>	8.90	
22 11 16 00-0380	LF		3" Hard Drawn Type L Copper Tube/Pipe.....	61.44	11.63
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.13	
			<i>For Up To 20, Add</i>	6.81	
			<i>For >150, Deduct</i>	-2.66	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
22 11 16 00-0381	LF		4" Hard Drawn Type L Copper Tube/Pipe.....	86.72	13.12
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.79	
			<i>For Up To 20, Add</i>	9.86	
			<i>For >150, Deduct</i>	-4.74	
			<i>For Work In Restricted Working Space, Add</i>	11.81	
22 11 16 00-0382	LF		5" Hard Drawn Type L Copper Tube/Pipe.....	128.85	15.07
			<i>For Medical/Oxygen Service Tubing, Add</i>	6.69	
			<i>For Up To 20, Add</i>	14.98	
			<i>For >150, Deduct</i>	-8.37	
			<i>For Work In Restricted Working Space, Add</i>	13.56	
22 11 16 00-0383	LF		6" Hard Drawn Type L Copper Tube/Pipe.....	180.09	23.35
			<i>For Medical/Oxygen Service Tubing, Add</i>	8.81	
			<i>For Up To 20, Add</i>	20.76	
			<i>For >150, Deduct</i>	-11.01	
			<i>For Work In Restricted Working Space, Add</i>	21.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe	285.30	25.96
<i>For Medical/Oxygen Service Tubing, Add</i>	16.60	
<i>For Up To 20, Add</i>	33.72	
<i>For >150, Deduct</i>	-20.75	
<i>For Work In Restricted Working Space, Add</i>	23.36	
22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe	6.46	3.41
<i>For Medical/Oxygen Service Tubing, Add</i>	0.11	
<i>For Up To 20, Add</i>	0.68	
<i>For >150, Deduct</i>	-0.14	
<i>For Work In Restricted Working Space, Add</i>	1.53	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe	8.26	3.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.19	
<i>For Up To 20, Add</i>	0.89	
<i>For >150, Deduct</i>	-0.24	
<i>For Work In Restricted Working Space, Add</i>	1.75	
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	8.53	3.69
<i>For Medical/Oxygen Service Tubing, Add</i>	0.23	
<i>For Up To 20, Add</i>	0.92	
<i>For >150, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.71	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	11.72	3.91
<i>For Medical/Oxygen Service Tubing, Add</i>	0.41	
<i>For Up To 20, Add</i>	1.30	
<i>For >150, Deduct</i>	-0.51	
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe	13.82	4.40
<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
<i>For Up To 20, Add</i>	1.55	
<i>For >150, Deduct</i>	-0.68	
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe	18.43	6.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.68	
<i>For Up To 20, Add</i>	2.06	
<i>For >150, Deduct</i>	-0.85	
<i>For Work In Restricted Working Space, Add</i>	2.99	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe	22.05	7.31
<i>For Medical/Oxygen Service Tubing, Add</i>	0.87	
<i>For Up To 20, Add</i>	2.48	
<i>For >150, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	3.35	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe	30.39	9.03
<i>For Medical/Oxygen Service Tubing, Add</i>	1.34	
<i>For Up To 20, Add</i>	3.46	
<i>For >150, Deduct</i>	-1.67	
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe	54.66	10.60
<i>For Medical/Oxygen Service Tubing, Add</i>	1.99	
<i>For Up To 20, Add</i>	6.09	
<i>For >150, Deduct</i>	-2.49	
<i>For Work In Restricted Working Space, Add</i>	8.93	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	72.38	12.51
<i>For Medical/Oxygen Service Tubing, Add</i>	2.72	
<i>For Up To 20, Add</i>	8.09	
<i>For >150, Deduct</i>	-3.40	
<i>For Work In Restricted Working Space, Add</i>	11.51	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	104.10	14.10
<i>For Medical/Oxygen Service Tubing, Add</i>	4.85	
<i>For Up To 20, Add</i>	11.93	
<i>For >150, Deduct</i>	-6.06	
<i>For Work In Restricted Working Space, Add</i>	13.04	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	162.42	16.20
<i>For Medical/Oxygen Service Tubing, Add</i>	8.89	
<i>For Up To 20, Add</i>	19.02	
<i>For >150, Deduct</i>	-11.11	
<i>For Work In Restricted Working Space, Add</i>	15.40	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	242.14	25.10
<i>For Medical/Oxygen Service Tubing, Add</i>	12.75	
<i>For Up To 20, Add</i>	28.20	
<i>For >150, Deduct</i>	-15.94	
<i>For Work In Restricted Working Space, Add</i>	24.82	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe	389.66	27.91
<i>For Medical/Oxygen Service Tubing, Add</i>	23.88	
<i>For Up To 20, Add</i>	46.43	
<i>For >150, Deduct</i>	-29.85	
<i>For Work In Restricted Working Space, Add</i>	27.35	
22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	5.65	2.98
<i>For Up To 20, Add</i>	0.60	
<i>For >150, Deduct</i>	-0.14	
<i>For Work In Restricted Working Space, Add</i>	1.28	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0402	LF		1/2" Hard Drawn Type M Copper Tube/Pipe.....	5.96	3.10
			<i>For Up To 20, Add</i>	0.63	
			<i>For >150, Deduct</i>	-0.15	
			<i>For Work In Restricted Working Space, Add</i>	1.33	
22 11 16 00-0403	LF		3/4" Hard Drawn Type M Copper Tube/Pipe.....	7.20	3.28
			<i>For Up To 20, Add</i>	0.78	
			<i>For >150, Deduct</i>	-0.25	
			<i>For Work In Restricted Working Space, Add</i>	1.41	
22 11 16 00-0404	LF		1" Hard Drawn Type M Copper Tube/Pipe.....	9.10	3.69
			<i>For Up To 20, Add</i>	1.01	
			<i>For >150, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	1.58	
22 11 16 00-0405	LF		1-1/4" Hard Drawn Type M Copper Tube/Pipe.....	13.69	5.49
			<i>For Up To 20, Add</i>	1.51	
			<i>For >150, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 11 16 00-0406	LF		1-1/2" Hard Drawn Type M Copper Tube/Pipe.....	17.01	6.12
			<i>For Up To 20, Add</i>	1.89	
			<i>For >150, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	2.79	
22 11 16 00-0407	LF		2" Hard Drawn Type M Copper Tube/Pipe.....	23.67	7.55
			<i>For Up To 20, Add</i>	2.67	
			<i>For >150, Deduct</i>	-1.21	
			<i>For Work In Restricted Working Space, Add</i>	3.46	
22 11 16 00-0408	LF		2-1/2" Hard Drawn Type M Copper Tube/Pipe.....	45.62	8.88
			<i>For Up To 20, Add</i>	5.00	
			<i>For >150, Deduct</i>	-1.76	
			<i>For Work In Restricted Working Space, Add</i>	8.40	
22 11 16 00-0409	LF		3" Hard Drawn Type M Copper Tube/Pipe.....	54.88	10.46
			<i>For Up To 20, Add</i>	6.07	
			<i>For >150, Deduct</i>	-2.34	
			<i>For Work In Restricted Working Space, Add</i>	9.44	
22 11 16 00-0410	LF		4" Hard Drawn Type M Copper Tube/Pipe.....	80.56	11.81
			<i>For Up To 20, Add</i>	9.15	
			<i>For >150, Deduct</i>	-4.39	
			<i>For Work In Restricted Working Space, Add</i>	11.01	
22 11 16 00-0411	LF		5" Hard Drawn Type M Copper Tube/Pipe.....	127.51	13.56
			<i>For Up To 20, Add</i>	14.88	
			<i>For >150, Deduct</i>	-8.51	
			<i>For Work In Restricted Working Space, Add</i>	12.71	
22 11 16 00-0412	LF		6" Hard Drawn Type M Copper Tube/Pipe.....	179.37	21.02
			<i>For Up To 20, Add</i>	20.78	
			<i>For >150, Deduct</i>	-11.37	
			<i>For Work In Restricted Working Space, Add</i>	19.69	
22 11 16 00-0413	LF		8" Hard Drawn Type M Copper Tube/Pipe.....	287.71	23.37
			<i>For Up To 20, Add</i>	34.16	
			<i>For >150, Deduct</i>	-21.55	
			<i>For Work In Restricted Working Space, Add</i>	21.66	
22 11 16 00-0414			Soft Drawn Type L Copper Tube (22 11 16 00-0369)		
22 11 16 00-0415	LF		1/4" Soft Drawn Type L Copper Tube.....	6.30	3.17
			<i>For Up To 20, Add</i>	0.67	
			<i>For >150, Deduct</i>	-0.16	
			<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0416	LF		3/8" Soft Drawn Type L Copper Tube.....	7.35	3.30
			<i>For Up To 20, Add</i>	0.80	
			<i>For >150, Deduct</i>	-0.24	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0417	LF		1/2" Soft Drawn Type L Copper Tube.....	8.38	3.44
			<i>For Up To 20, Add</i>	0.92	
			<i>For >150, Deduct</i>	-0.32	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0418	LF		5/8" Soft Drawn Type L Copper Tube.....	9.46	3.55
			<i>For Up To 20, Add</i>	1.05	
			<i>For >150, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	1.60	
22 11 16 00-0419	LF		3/4" Soft Drawn Type L Copper Tube.....	10.41	3.65
			<i>For Up To 20, Add</i>	1.16	
			<i>For >150, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0420	LF		1" Soft Drawn Type L Copper Tube.....	12.98	4.10
			<i>For Up To 20, Add</i>	1.47	
			<i>For >150, Deduct</i>	-0.68	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0421	LF		1-1/4" Soft Drawn Type L Copper Tube.....	18.13	6.09
			<i>For Up To 20, Add</i>	2.04	
			<i>For >150, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0422	LF		1-1/2" Soft Drawn Type L Copper Tube.....	22.40	6.80
			<i>For Up To 20, Add</i>	2.55	
			<i>For >150, Deduct</i>	-1.22	
			<i>For Work In Restricted Working Space, Add</i>	3.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0423	LF			2" Soft Drawn Type L Copper Tube.....	31.98	8.40
				<i>For Up To 20, Add</i>	3.68	
				<i>For >150, Deduct</i>	-1.94	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0424				Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425	LF			1/4" Soft Drawn Type K Copper Tube.....	6.45	3.17
				<i>For Up To 20, Add</i>	0.69	
				<i>For >150, Deduct</i>	-0.17	
				<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0426	LF			3/8" Soft Drawn Type K Copper Tube.....	7.85	3.30
				<i>For Up To 20, Add</i>	0.86	
				<i>For >150, Deduct</i>	-0.29	
				<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0427	LF			1/2" Soft Drawn Type K Copper Tube.....	8.80	3.44
				<i>For Up To 20, Add</i>	0.97	
				<i>For >150, Deduct</i>	-0.36	
				<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0428	LF			5/8" Soft Drawn Type K Copper Tube.....	9.66	3.55
				<i>For Up To 20, Add</i>	1.07	
				<i>For >150, Deduct</i>	-0.43	
				<i>For Work In Restricted Working Space, Add</i>	1.60	
22 11 16 00-0429	LF			3/4" Soft Drawn Type K Copper Tube.....	12.20	3.65
				<i>For Up To 20, Add</i>	1.39	
				<i>For >150, Deduct</i>	-0.67	
				<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0430	LF			1" Soft Drawn Type K Copper Tube.....	15.08	4.10
				<i>For Up To 20, Add</i>	1.73	
				<i>For >150, Deduct</i>	-0.89	
				<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0431	LF			1-1/4" Soft Drawn Type K Copper Tube.....	19.67	6.09
				<i>For Up To 20, Add</i>	2.23	
				<i>For >150, Deduct</i>	-1.05	
				<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0432	LF			1-1/2" Soft Drawn Type K Copper Tube.....	24.84	6.80
				<i>For Up To 20, Add</i>	2.85	
				<i>For >150, Deduct</i>	-1.46	
				<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0433	LF			2" Soft Drawn Type K Copper Tube.....	35.34	8.40
				<i>For Up To 20, Add</i>	4.10	
				<i>For >150, Deduct</i>	-2.28	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0434	LF			2-1/2" Soft Drawn Type K Copper Tube.....	49.22	10.07
				<i>For Up To 20, Add</i>	5.78	
				<i>For >150, Deduct</i>	-3.41	
				<i>For Work In Restricted Working Space, Add</i>	4.53	
22 11 16 00-0435	LF			3" Soft Drawn Type K Copper Tube.....	65.30	11.88
				<i>For Up To 20, Add</i>	7.72	
				<i>For >150, Deduct</i>	-4.75	
				<i>For Work In Restricted Working Space, Add</i>	5.34	
22 11 16 00-0436				Copper And Brass Fittings (22 11 16 00-0368)		
				Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437				90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438	EA			1/4" 90 Degree Copper Elbow.....	32.26	18.79
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.43	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.02	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
				<i>For Street Fitting, Add</i>	1.64	
				<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-0439	EA			3/8" 90 Degree Copper Elbow.....	38.12	22.54
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.29	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.60	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
				<i>For Street Fitting, Add</i>	1.73	
				<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0440	EA			1/2" 90 Degree Copper Elbow.....	47.88	30.98
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.04	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.72	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
				<i>For Street Fitting, Add</i>	0.56	
				<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0441	EA			3/4" 90 Degree Copper Elbow.....	60.89	38.59
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.82	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.93	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
				<i>For Street Fitting, Add</i>	1.26	
				<i>For Work In Restricted Working Space, Add</i>	17.32	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0442	EA		1" 90 Degree Copper Elbow	76.72	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.74	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Street Fitting, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0443	EA		1-1/4" 90 Degree Copper Elbow	86.18	49.86
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.20	
			<i>For Street Fitting, Add</i>	4.61	
			<i>For Work In Restricted Working Space, Add</i>	22.40	
22 11 16 00-0444	EA		1-1/2" 90 Degree Copper Elbow	99.72	54.51
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.16	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.25	
			<i>For Street Fitting, Add</i>	7.21	
			<i>For Work In Restricted Working Space, Add</i>	24.51	
22 11 16 00-0445	EA		2" 90 Degree Copper Elbow	124.40	61.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.73	
			<i>For Street Fitting, Add</i>	13.14	
			<i>For Work In Restricted Working Space, Add</i>	27.46	
22 11 16 00-0446	EA		2-1/2" 90 Degree Copper Elbow	157.80	62.24
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.00	
			<i>For Work In Restricted Working Space, Add</i>	28.01	
22 11 16 00-0447	EA		3" 90 Degree Copper Elbow	202.40	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.27	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.70	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0448	EA		4" 90 Degree Copper Elbow	378.71	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.76	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0449	EA		5" 90 Degree Copper Elbow	1,140.34	144.46
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-67.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	32.48	
			<i>For Work In Restricted Working Space, Add</i>	64.97	
22 11 16 00-0450	EA		6" 90 Degree Copper Elbow	1,546.59	210.21
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	108.84	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-93.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	47.27	
			<i>For Work In Restricted Working Space, Add</i>	94.53	
22 11 16 00-0451	EA		8" 90 Degree Copper Elbow	4,976.01	280.23
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	290.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-269.81	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	63.02	
			<i>For Work In Restricted Working Space, Add</i>	126.05	
22 11 16 00-0452			90 Degree Brass Elbows (22 11 16 00-0436)		
22 11 16 00-0453	EA		1/2" Drop Ear 90 Degree Brass Elbow.....	55.28	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0454	EA		3/4" Drop Ear 90 Degree Brass Elbow.....	83.40	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.94	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.06	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0455	EA		1/2" Flanged Sink 90 Degree Brass Elbow	62.52	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.45	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	46.96	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	55.90	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.44	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0458 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	74.33	38.59
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.49	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.60	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0459 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	121.97	46.06
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.00	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.55	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461 EA 1/2" Reducing 90 Degree Copper Elbow	57.85	30.98
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.54	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.22	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow	65.80	38.59
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.06	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.18	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow	83.81	46.06
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.09	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.64	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow	112.34	49.86
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.08	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.35	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.20	
<i>For Work In Restricted Working Space, Add</i>	22.40	
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow	131.22	54.51
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.73	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.65	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.25	
<i>For Work In Restricted Working Space, Add</i>	24.51	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow	158.20	61.12
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.06	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.49	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.73	
<i>For Work In Restricted Working Space, Add</i>	27.46	
22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow	35.80	18.79
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.61	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.20	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
<i>For Street Fitting, Add</i>	3.05	
<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow	40.34	22.54
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.40	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.71	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
<i>For Street Fitting, Add</i>	2.62	
<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow	49.05	30.98
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.10	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.78	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
<i>For Street Fitting, Add</i>	1.03	
<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow	62.14	38.59
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.88	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.99	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
<i>For Street Fitting, Add</i>	1.76	
<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow	79.99	46.06
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.90	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.45	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
<i>For Street Fitting, Add</i>	4.39	
<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow	89.52	49.86
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.94	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.21	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.20	
<i>For Street Fitting, Add</i>	5.95	
<i>For Work In Restricted Working Space, Add</i>	22.40	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0474	EA	1-1/2"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.95 13.17 -9.08 12.25 7.30 24.51	54.51
22 11 16 00-0475	EA	2"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.99 15.25 -10.68 13.73 27.46	61.12
22 11 16 00-0476	EA	2-1/2"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.03 17.19 -12.52 14.00 28.01	62.24
22 11 16 00-0477	EA	3"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.99 21.45 -15.88 16.73 33.46	74.44
22 11 16 00-0478	EA	4"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	359.63 33.80 -25.89 23.73 47.46	105.56
22 11 16 00-0479	EA	5"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	996.65 71.49 -60.66 32.48 64.97	144.46
22 11 16 00-0480	EA	6"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,544.49 108.74 -92.98 47.27 94.53	210.21
22 11 16 00-0481	EA	8"	45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,597.53 271.89 -250.88 63.02 126.05	280.23
22 11 16 00-0482			Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483	EA	1/4"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.83 6.77 -4.65 6.34 12.68	28.17
22 11 16 00-0484	EA	3/8"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.60 7.95 -5.42 7.61 15.21	33.80
22 11 16 00-0485	EA	1/2"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.84 10.69 -7.16 10.56 21.13	47.04
22 11 16 00-0486	EA	3/4"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.08 13.39 -9.02 13.10 26.20	58.31
22 11 16 00-0487	EA	1"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.56 16.50 -11.29 15.63 31.27	69.58
22 11 16 00-0488	EA	1-1/4"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.81 18.11 -12.47 16.90 33.80	75.21
22 11 16 00-0489	EA	1-1/2"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.05 20.21 -14.08 18.38 36.76	81.69
22 11 16 00-0490	EA	2"	Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.09 23.61 -16.71 20.70 41.41	92.11



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0491	EA			2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.92 26.75 -19.75 21.01 42.02	93.36
22 11 16 00-0492	EA			3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.07 34.06 -25.63 25.29 50.57	112.43
22 11 16 00-0493	EA			4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	660.76 56.64 -44.84 35.40 70.80	157.43
22 11 16 00-0494	EA			5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,711.38 117.86 -101.71 48.43 96.87	215.39
22 11 16 00-0495	EA			6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,371.36 165.90 -142.23 71.00 142.00	315.76
22 11 16 00-0496	EA			8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,951.84 460.61 -429.10 94.53 189.07	420.41
22 11 16 00-0497	EA			1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.27 11.31 -7.79 10.56 21.13	47.04
22 11 16 00-0498 Reducing Copper Tees <small>(22 11 16 00-0436)</small>						
22 11 16 00-0499	EA			3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.70 7.44 -5.19 6.76 13.52	30.00
22 11 16 00-0500	EA			1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.37 10.11 -6.94 9.51 19.01	42.26
22 11 16 00-0501	EA			3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.80 12.56 -8.47 12.25 24.51	54.51
22 11 16 00-0502	EA			1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.02 15.76 -10.83 14.79 29.58	65.77
22 11 16 00-0503	EA			1-1/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.52 17.53 -12.18 16.06 32.11	71.41
22 11 16 00-0504	EA			1-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.56 19.62 -13.77 17.54 35.07	78.03
22 11 16 00-0505	EA			2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.23 22.66 -16.11 19.65 39.30	87.32
22 11 16 00-0506	EA			2-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.70 26.52 -19.78 20.23 40.46	89.99
22 11 16 00-0507	EA			3" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.26 33.67 -25.89 23.34 46.68	103.74

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0508 EA 4" Reducing Copper Tee..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	626.95 50.54 -40.94 28.79 57.58	127.99
22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510 EA 1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.99 4.27 -2.86 4.23 8.45	18.79
22 11 16 00-0511 EA 3/8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.89 5.12 -3.43 5.07 10.14	22.54
22 11 16 00-0512 EA 1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.38 7.02 -4.69 6.97 13.94	30.98
22 11 16 00-0513 EA 3/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.57 8.75 -5.87 8.66 17.32	38.59
22 11 16 00-0514 EA 1" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.63 10.53 -7.08 10.35 20.70	46.06
22 11 16 00-0515 EA 1-1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.04 11.52 -7.78 11.20 22.40	49.86
22 11 16 00-0516 EA 1-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.14 12.68 -8.59 12.25 24.51	54.51
22 11 16 00-0517 EA 2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.60 14.43 -9.86 13.73 27.46	60.56
22 11 16 00-0518 EA 2-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.07 14.67 -10.26 13.23 26.45	58.87
22 11 16 00-0519 EA 3" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.66 17.92 -12.60 15.95 31.90	71.32
22 11 16 00-0520 EA 4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.28 25.73 -18.60 21.40 42.79	95.96
22 11 16 00-0521 EA 5" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.07 38.20 -28.48 29.18 58.35	175.06
22 11 16 00-0522 EA 6" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	583.68 57.71 -43.45 42.79 85.59	190.23
22 11 16 00-0523 EA 8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,345.89 105.16 -86.23 56.80 113.60	252.22
22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0525 EA 3/8" Reducing Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.96 4.32 -2.91 4.23 8.45	18.74



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0526	EA			1/2" Reducing Copper Coupling	42.01	26.76
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.11	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.11	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.02	
				<i>For Work In Restricted Working Space, Add</i>	12.04	
22 11 16 00-0527	EA			3/4" Reducing Copper Coupling	55.34	34.79
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.98	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.37	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.82	
				<i>For Work In Restricted Working Space, Add</i>	15.63	
22 11 16 00-0528	EA			1" Reducing Copper Coupling	69.22	42.26
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.80	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.63	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.51	
				<i>For Work In Restricted Working Space, Add</i>	19.01	
22 11 16 00-0529	EA			1-1/4" Reducing Copper Coupling	79.97	47.89
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.18	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.59	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.77	
				<i>For Work In Restricted Working Space, Add</i>	21.55	
22 11 16 00-0530	EA			1-1/2" Reducing Copper Coupling	91.64	52.11
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.40	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.49	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.73	
				<i>For Work In Restricted Working Space, Add</i>	23.45	
22 11 16 00-0531	EA			2" Reducing Copper Coupling	107.45	57.74
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.03	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.70	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.99	
				<i>For Work In Restricted Working Space, Add</i>	25.99	
22 11 16 00-0532	EA			2-1/2" Reducing Copper Coupling	131.69	59.26
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.47	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.03	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.32	
				<i>For Work In Restricted Working Space, Add</i>	26.65	
22 11 16 00-0533	EA			3" Reducing Copper Coupling	155.45	68.72
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.02	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.90	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.37	
				<i>For Work In Restricted Working Space, Add</i>	30.74	
22 11 16 00-0534	EA			4" Reducing Copper Coupling	240.07	89.99
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.49	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-18.75	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	20.23	
				<i>For Work In Restricted Working Space, Add</i>	40.46	
22 11 16 00-0535	EA			5" Reducing Copper Coupling	599.46	125.39
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	48.78	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-39.37	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	28.20	
				<i>For Work In Restricted Working Space, Add</i>	56.41	
22 11 16 00-0536	EA			6" Reducing Copper Coupling	889.98	168.57
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.79	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-57.14	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	37.93	
				<i>For Work In Restricted Working Space, Add</i>	75.86	
22 11 16 00-0537	EA			8" Reducing Copper Coupling	1,718.92	245.65
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	122.77	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-104.36	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	55.24	
				<i>For Work In Restricted Working Space, Add</i>	110.48	
22 11 16 00-0538				Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539	EA			1/4" Male Copper Adapter	42.62	18.31
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.95	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.54	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
				<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-0540	EA			3/8" Male Copper Adapter	41.00	22.54
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.43	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.74	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
				<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0541	EA			1/2" Male Copper Adapter	45.18	28.17
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.49	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.37	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.34	
				<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-0542	EA			3/4" Male Copper Adapter	57.06	35.21
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.06	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.46	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.82	
				<i>For Work In Restricted Working Space, Add</i>	15.63	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0543 EA 1" Male Copper Adapter.....	73.14	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter	88.73	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.48	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter	101.70	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.11	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	139.07	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter	247.69	88.73
For Silver Solder Instead Of 95/5 Solder, Add	25.62	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.86	
For Work In Restricted Working Space, Add	39.72	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	329.00	118.33
For Silver Solder Instead Of 95/5 Solder, Add	34.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.45	
For Work In Restricted Working Space, Add	52.91	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	493.09	165.99
For Silver Solder Instead Of 95/5 Solder, Add	49.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	37.35	
For Work In Restricted Working Space, Add	74.69	
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter	37.40	18.31
For Silver Solder Instead Of 95/5 Solder, Add	4.69	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0552 EA 3/8" Female Copper Adapter	43.46	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0553 EA 1/2" Female Copper Adapter	46.93	28.17
For Silver Solder Instead Of 95/5 Solder, Add	6.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.34	
For Work In Restricted Working Space, Add	12.68	
22 11 16 00-0554 EA 3/4" Female Copper Adapter	58.50	35.21
For Silver Solder Instead Of 95/5 Solder, Add	8.14	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.82	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0555 EA 1" Female Copper Adapter	75.16	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.81	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0556 EA 1-1/4" Female Copper Adapter	91.85	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0557 EA 1-1/2" Female Copper Adapter	113.81	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0558 EA 2" Female Copper Adapter	148.30	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	
22 11 16 00-0559 EA 2-1/2" Female Copper Adapter	284.58	81.69
For Silver Solder Instead Of 95/5 Solder, Add	26.42	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.28	
For Work In Restricted Working Space, Add	36.57	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0560	EA		3" Female Copper Adapter.....	450.41	118.33
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	40.16	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-31.34	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	26.45	
			<i>For Work In Restricted Working Space, Add</i>	52.91	
22 11 16 00-0561			Wrot Copper, Solder Union (22 11 16 00-0436)		
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union.....	57.05	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.54	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union.....	64.80	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.32	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.28	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union.....	65.52	33.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.35	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.81	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union.....	75.95	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.57	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.68	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union.....	100.31	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.92	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union.....	121.38	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.68	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.87	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union.....	148.41	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.87	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union.....	210.34	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.66	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union.....	408.58	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.58	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union.....	926.91	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.17	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-54.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0572			Cast Bronze, Solder Union (22 11 16 00-0436)		
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union.....	65.63	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.66	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.97	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union.....	72.89	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.69	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union.....	67.77	33.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.92	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union.....	79.14	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union.....	105.84	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.19	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union.....	136.49	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.43	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union.....	164.17	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.66	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union.....	237.18	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	22.00	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-16.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union.....	408.56	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.58	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.00	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0582	EA		3" Cast Bronze, Solder Union.....	926.91	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.17	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-54.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0583			Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)		
22 11 16 00-0584	EA		1/4" Cast Bronze, Solder X Female Threaded Union.....	77.21	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.55	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0585	EA		3/8" Cast Bronze, Solder X Female Threaded Union.....	85.76	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.33	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0586	EA		1/2" Cast Bronze, Solder X Female Threaded Union.....	86.39	33.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.39	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	106.37	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.09	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union.....	170.16	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	264.57	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.83	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	323.33	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.62	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.39	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union.....	505.66	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.42	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-30.35	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	877.84	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-49.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0593			Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)		
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	66.87	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.72	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	79.43	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	78.87	33.80
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.01	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.48	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
				<i>For Work In Restricted Working Space, Add</i>	15.21	
	22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	100.00	38.59
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.77	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.89	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
				<i>For Work In Restricted Working Space, Add</i>	17.32	
	22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union.....	173.08	46.06
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.56	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.10	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
				<i>For Work In Restricted Working Space, Add</i>	20.70	
	22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	205.15	50.71
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.86	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.06	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
				<i>For Work In Restricted Working Space, Add</i>	22.82	
	22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	220.10	56.34
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.46	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.23	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
				<i>For Work In Restricted Working Space, Add</i>	25.35	
	22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union.....	309.68	67.60
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.63	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.55	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
				<i>For Work In Restricted Working Space, Add</i>	30.42	
	22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	721.87	74.44
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.25	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-41.67	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
				<i>For Work In Restricted Working Space, Add</i>	33.46	
	22 11 16 00-0603			Copper Caps <small>(22 11 16 00-0436)</small>		
	22 11 16 00-0604	EA		1/4" Copper Cap	10.54	6.19
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.46	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.99	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.39	
				<i>For Work In Restricted Working Space, Add</i>	2.79	
	22 11 16 00-0605	EA		3/8" Copper Cap	13.14	7.32
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.77	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.21	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.67	
				<i>For Work In Restricted Working Space, Add</i>	3.35	
	22 11 16 00-0606	EA		1/2" Copper Cap	16.35	10.14
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.35	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.58	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.30	
				<i>For Work In Restricted Working Space, Add</i>	4.60	
	22 11 16 00-0607	EA		3/4" Copper Cap	20.97	12.53
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.95	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.00	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.86	
				<i>For Work In Restricted Working Space, Add</i>	5.72	
	22 11 16 00-0608	EA		1" Copper Cap	27.26	15.07
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.64	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.50	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.42	
				<i>For Work In Restricted Working Space, Add</i>	6.83	
	22 11 16 00-0609	EA		1-1/4" Copper Cap	30.63	16.20
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.99	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.76	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.69	
				<i>For Work In Restricted Working Space, Add</i>	7.39	
	22 11 16 00-0610	EA		1-1/2" Copper Cap	35.68	17.75
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.48	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.13	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.04	
				<i>For Work In Restricted Working Space, Add</i>	8.09	
	22 11 16 00-0611	EA		2" Copper Cap	43.94	18.41
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.98	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.59	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.17	
				<i>For Work In Restricted Working Space, Add</i>	8.35	
	22 11 16 00-0612	EA		2-1/2" Copper Cap	80.96	21.53
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.32	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.68	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.90	
				<i>For Work In Restricted Working Space, Add</i>	9.80	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0613	EA		3" Copper Cap	110.98	27.62
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.64	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.27	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0614	EA		4" Copper Cap	193.80	41.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.02	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.49	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 11 16 00-0615	EA		5" Cast Bronze Cap	1,014.93	64.32
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	60.49	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-55.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	29.24	
22 11 16 00-0616	EA		6" Cast Bronze Cap	1,969.75	93.62
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	112.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-105.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	21.27	
			<i>For Work In Restricted Working Space, Add</i>	42.54	
22 11 16 00-0617	EA		8" Cast Bronze Cap	2,509.02	124.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	144.36	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-134.90	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	28.36	
			<i>For Work In Restricted Working Space, Add</i>	56.72	
22 11 16 00-0618			Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619	EA		1/2" Copper Cross	101.65	57.05
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.64	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	25.68	
22 11 16 00-0620	EA		3/4" Copper Cross	137.55	70.94
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.51	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.95	
			<i>For Work In Restricted Working Space, Add</i>	31.90	
22 11 16 00-0621	EA		1" Copper Cross	180.11	84.68
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.71	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	19.06	
			<i>For Work In Restricted Working Space, Add</i>	38.12	
22 11 16 00-0622	EA		1-1/4" Copper Cross	213.68	91.68
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.43	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	20.62	
			<i>For Work In Restricted Working Space, Add</i>	41.24	
22 11 16 00-0623	EA		1-1/2" Copper Cross	259.07	100.24
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	28.00	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.48	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	22.56	
			<i>For Work In Restricted Working Space, Add</i>	45.13	
22 11 16 00-0624	EA		2" Copper Cross	373.82	112.43
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.55	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-27.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	25.29	
			<i>For Work In Restricted Working Space, Add</i>	50.57	
22 11 16 00-0625	EA		2-1/2" Copper Cross	659.84	124.49
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	51.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-42.33	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	28.01	
			<i>For Work In Restricted Working Space, Add</i>	56.02	
22 11 16 00-0626			Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627	EA		3/8" Cast Bronze Cross	83.66	41.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.30	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.34	
			<i>For Work In Restricted Working Space, Add</i>	18.67	
22 11 16 00-0628	EA		1/2" Cast Bronze Cross	104.86	57.05
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.80	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.52	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	25.68	
22 11 16 00-0629	EA		3/4" Cast Bronze Cross	143.79	70.94
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.95	
			<i>For Work In Restricted Working Space, Add</i>	31.90	
22 11 16 00-0630	EA		1" Cast Bronze Cross	190.71	84.68
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	22.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	19.06	
			<i>For Work In Restricted Working Space, Add</i>	38.12	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.93 25.19 -18.32 20.62 41.24	91.68
22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.80 29.08 -21.56 22.56 45.13	100.24
22 11 16 00-0633	EA		2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	414.86 37.60 -29.17 25.29 50.57	112.43
22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	754.46 56.40 -47.06 28.01 56.02	124.49
22 11 16 00-0635			Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	112.87	38.59
22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	100.93	38.59
22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	108.45	38.59
22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	115.08	38.59
22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0642			Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643			Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow.....	28.11	16.91
22 11 16 00-0645	EA		3/4" Crimped Copper 90 Degree Elbow.....	33.54	19.30
22 11 16 00-0646	EA		1" Crimped Copper 90 Degree Elbow.....	43.86	22.96
22 11 16 00-0647	EA		1-1/4" Crimped Copper 90 Degree Elbow.....	56.91	25.35
22 11 16 00-0648	EA		1-1/2" Crimped Copper 90 Degree Elbow.....	78.03	28.17
22 11 16 00-0649	EA		2" Crimped Copper 90 Degree Elbow.....	100.42	33.80
22 11 16 00-0650	EA		2-1/2" Crimped Copper 90 Degree Elbow.....	203.54	39.43
22 11 16 00-0651	EA		3" Crimped Copper 90 Degree Elbow.....	252.09	46.90
22 11 16 00-0652	EA		4" Crimped Copper 90 Degree Elbow.....	317.71	61.97
22 11 16 00-0653			Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA		1/2" Crimped Copper 45 Degree Elbow.....	28.56	16.91
22 11 16 00-0655	EA		3/4" Crimped Copper 45 Degree Elbow.....	32.81	19.30
22 11 16 00-0656	EA		1" Crimped Copper 45 Degree Elbow.....	47.16	22.96
22 11 16 00-0657	EA		1-1/4" Crimped Copper 45 Degree Elbow.....	56.18	25.35
22 11 16 00-0658	EA		1-1/2" Crimped Copper 45 Degree Elbow.....	71.70	28.17
22 11 16 00-0659	EA		2" Crimped Copper 45 Degree Elbow.....	91.89	33.80
22 11 16 00-0660	EA		2-1/2" Crimped Copper 45 Degree Elbow.....	154.53	39.43
22 11 16 00-0661	EA		3" Crimped Copper 45 Degree Elbow.....	206.70	46.90
22 11 16 00-0662	EA		4" Crimped Copper 45 Degree Elbow.....	282.20	61.97
22 11 16 00-0663			Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664	EA		1/2" Crimped Copper Straight Tee.....	42.24	25.35
22 11 16 00-0665	EA		3/4" Crimped Copper Straight Tee.....	57.43	33.38
22 11 16 00-0666	EA		1" Crimped Copper Straight Tee.....	69.02	37.04
22 11 16 00-0667	EA		1-1/4" Crimped Copper Straight Tee.....	79.69	38.02
22 11 16 00-0668	EA		1-1/2" Crimped Copper Straight Tee.....	108.80	43.24
22 11 16 00-0669	EA		2" Crimped Copper Straight Tee.....	130.44	50.71
22 11 16 00-0670	EA		2-1/2" Crimped Copper Straight Tee.....	267.13	59.15
22 11 16 00-0671	EA		3" Crimped Copper Straight Tee.....	328.62	70.43
22 11 16 00-0672	EA		4" Crimped Copper Straight Tee.....	452.33	92.95
22 11 16 00-0673			Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674	EA		3/4" Crimped Copper Reducing Tee.....	47.65	24.09
22 11 16 00-0675	EA		1" Crimped Copper Reducing Tee.....	67.83	31.69
22 11 16 00-0676	EA		1-1/4" Crimped Copper Reducing Tee.....	73.54	35.21
22 11 16 00-0677	EA		1-1/2" Crimped Copper Reducing Tee.....	93.29	36.19
22 11 16 00-0678	EA		2" Crimped Copper Reducing Tee.....	110.99	40.98
22 11 16 00-0679	EA		2-1/2" Crimped Copper Reducing Tee.....	280.00	46.48
22 11 16 00-0680	EA		3" Crimped Copper Reducing Tee.....	341.06	56.34
22 11 16 00-0681	EA		4" Crimped Copper Reducing Tee.....	404.55	75.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling	27.83	16.91
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling	32.63	19.30
22 11 16 00-0685 EA 1" Crimped Copper Coupling	42.11	22.96
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling	47.47	25.35
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling	59.87	28.17
22 11 16 00-0688 EA 2" Crimped Copper Coupling	73.18	33.80
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling	131.07	39.43
22 11 16 00-0690 EA 3" Crimped Copper Coupling	162.02	46.90
22 11 16 00-0691 EA 4" Crimped Copper Coupling	220.12	61.97
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling	35.37	16.06
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling	40.40	18.31
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling	51.62	21.83
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling	63.88	24.09
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling	71.32	26.76
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling	132.84	31.97
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling	164.70	37.60
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling	214.45	49.72
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter	28.38	16.91
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter	34.37	19.30
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter	44.59	22.96
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter	60.12	25.35
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter	73.26	28.17
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter	110.41	33.80
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter	203.54	39.43
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter	252.09	46.90
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter	303.23	61.97
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter	29.02	16.91
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter	34.84	19.30
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter	45.51	22.96
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter	62.88	25.35
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter	78.40	28.17
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter	112.06	33.80
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap	17.99	8.45
22 11 16 00-0720 EA 3/4" Crimped Copper Cap	23.77	9.86
22 11 16 00-0721 EA 1" Crimped Copper Cap	30.76	11.26
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap	34.70	12.67
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap	46.13	14.51
22 11 16 00-0724 EA 2" Crimped Copper Cap	54.88	16.91
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap	123.99	19.72
22 11 16 00-0726 EA 3" Crimped Copper Cap	154.70	23.52
22 11 16 00-0727 EA 4" Crimped Copper Cap	205.71	30.98
22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union	50.10	22.96
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union	62.39	28.31
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union	84.05	33.94
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union	100.88	39.15
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union	123.50	38.31
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union	170.59	55.49
22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union	44.79	16.91
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union	54.36	19.30
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union	75.22	22.96
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union	96.16	25.35
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union	121.22	28.17
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union	179.66	33.80
22 11 16 00-0742 C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
22 11 16 00-0743 EA 2-1/2" C x Flange Crimped Bronze Flange	335.25	39.43
22 11 16 00-0744 EA 3" C x Flange Crimped Bronze Flange	367.61	46.90
22 11 16 00-0745 EA 4" C x Flange Crimped Bronze Flange	425.63	61.97



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0746 Field Installed FKM Seals <small>(22 11 16 00-0642)</small>		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0747 EA 1/2" Field Installed FKM Seal.....	7.90	
Note: To be used in conjunction with fittings.		
22 11 16 00-0748 EA 3/4" Field Installed FKM Seal.....	9.77	
Note: To be used in conjunction with fittings.		
22 11 16 00-0749 EA 1" Field Installed FKM Seal.....	11.21	
Note: To be used in conjunction with fittings.		
22 11 16 00-0750 EA 1-1/4" Field Installed FKM Seal.....	12.81	
Note: To be used in conjunction with fittings.		
22 11 16 00-0751 EA 1-1/2" Field Installed FKM Seal.....	17.15	
Note: To be used in conjunction with fittings.		
22 11 16 00-0752 EA 2" Field Installed FKM Seal.....	19.27	
Note: To be used in conjunction with fittings.		
22 11 16 00-0753 EA 2-1/2" Field Installed FKM Seal.....	27.36	
Note: To be used in conjunction with fittings.		
22 11 16 00-0754 EA 3" Field Installed FKM Seal.....	31.64	
Note: To be used in conjunction with fittings.		
22 11 16 00-0755 EA 4" Field Installed FKM Seal.....	42.86	
Note: To be used in conjunction with fittings.		
22 11 16 00-0756 Cut And Prepare Existing In-Place Copper Pipe <small>(22 11 16 00-0368)</small>		
22 11 16 00-0757 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	14.09	
22 11 16 00-0758 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....	15.22	
22 11 16 00-0759 EA 1", Cut And Prepare Existing In Place Copper Pipe.....	17.12	
22 11 16 00-0760 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	17.96	
22 11 16 00-0761 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	19.02	
22 11 16 00-0762 EA 2", Cut And Prepare Existing In Place Copper Pipe.....	20.92	
22 11 16 00-0763 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	22.54	
22 11 16 00-0764 EA 3", Cut And Prepare Existing In Place Copper Pipe.....	26.62	
22 11 16 00-0765 EA 4", Cut And Prepare Existing In Place Copper Pipe.....	35.91	
22 11 16 00-0766 EA 6", Cut And Prepare Existing In Place Copper Pipe.....	51.33	
22 11 16 00-0767 EA 8", Cut And Prepare Existing In Place Copper Pipe.....	68.45	
22 11 16 00-0768 Sweat Brass Companion Flanges <small>(22 11 16 00-0368)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
22 11 16 00-0769 EA 1" Sweat Brass Companion Flange.....	76.74	21.66
22 11 16 00-0770 EA 1-1/4" Sweat Brass Companion Flange.....	83.78	23.86
22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange.....	119.13	25.94
22 11 16 00-0772 EA 2" Sweat Brass Companion Flange.....	158.92	28.78
22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange.....	200.78	34.62
22 11 16 00-0774 EA 3" Sweat Brass Companion Flange.....	222.18	45.38
22 11 16 00-0775 EA 4" Sweat Brass Companion Flange.....	296.09	54.08
22 11 16 00-0776 EA 5" Sweat Brass Companion Flange.....	547.47	60.58
22 11 16 00-0777 EA 6" Sweat Brass Companion Flange.....	631.84	88.02
22 11 16 00-0778 EA 8" Copper Companion Flange.....	1,454.96	125.56
22 11 16 00-0779 Brass Compression Fittings <small>(22 11 16 00-0368)</small>		
22 11 16 00-0780 Brass Compression Unions <small>(22 11 16 00-0779)</small>		
22 11 16 00-0781 EA 1/4" Brass Compression Union.....	24.05	15.22
22 11 16 00-0782 EA 3/8" Brass Compression Union.....	24.39	15.22
22 11 16 00-0783 EA 1/2" Brass Compression Union.....	25.41	15.22
22 11 16 00-0784 EA 5/8" Brass Compression Union.....	25.90	15.22
22 11 16 00-0785 EA 3/4" Brass Compression Union.....	31.88	15.22
22 11 16 00-0786 EA 3/8" x 1/4" Brass Compression Union.....	24.62	15.22
22 11 16 00-0787 EA 1/2" x 3/8" Brass Compression Union.....	25.50	15.22
22 11 16 00-0788 EA 5/8" x 3/8" Brass Compression Union.....	26.10	15.22
22 11 16 00-0789 EA 5/8" x 1/2" Brass Compression Union.....	27.08	15.22
22 11 16 00-0790 Brass Compression Union Elbows <small>(22 11 16 00-0779)</small>		
22 11 16 00-0791 EA 1/4" Brass Compression Union Elbow.....	25.41	15.22
22 11 16 00-0792 EA 3/8" Brass Compression Union Elbow.....	25.97	15.22
22 11 16 00-0793 EA 1/2" Brass Compression Union Elbow.....	27.19	15.22
22 11 16 00-0794 EA 5/8" Brass Compression Union Elbow.....	29.08	15.22
22 11 16 00-0795 EA 3/4" Brass Compression Union Elbow.....	36.46	15.22
22 11 16 00-0796 EA 3/8" x 1/4" Brass Compression Union Elbow.....	25.97	15.22
22 11 16 00-0797 EA 1/2" x 3/8" Brass Compression Union Elbow.....	27.19	15.22
22 11 16 00-0798 EA 5/8" x 3/8" Brass Compression Union Elbow.....	27.53	15.22
22 11 16 00-0799 EA 5/8" x 1/2" Brass Compression Union Elbow.....	33.08	15.22
22 11 16 00-0800 Brass Compression Union Tees <small>(22 11 16 00-0779)</small>		
22 11 16 00-0801 EA 1/4" Brass Compression Union Tee.....	25.83	15.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0802 EA 3/8" Brass Compression Union Tee.....	26.99	15.22
22 11 16 00-0803 EA 1/2" Brass Compression Union Tee.....	28.20	15.22
22 11 16 00-0804 EA 5/8" Brass Compression Union Tee.....	32.06	15.22
22 11 16 00-0805 EA 3/4" Brass Compression Union Tee.....	45.40	15.22
22 11 16 00-0806 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	27.80	15.22
22 11 16 00-0807 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	34.06	15.22
22 11 16 00-0808 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	33.46	15.22
22 11 16 00-0809 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	34.16	15.22
22 11 16 00-0810 Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811 EA 1/4" Brass Compression Male Connector.....	23.80	15.22
22 11 16 00-0812 EA 3/8" Brass Compression Male Connector.....	24.25	15.22
22 11 16 00-0813 EA 1/2" Brass Compression Male Connector.....	25.02	15.22
22 11 16 00-0814 EA 5/8" Brass Compression Male Connector.....	26.17	15.22
22 11 16 00-0815 EA 3/4" Brass Compression Male Connector.....	29.14	15.07
22 11 16 00-0816 Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817 EA 1/4" Brass Compression Female Connector.....	24.29	15.22
22 11 16 00-0818 EA 3/8" Brass Compression Female Connector.....	24.87	15.22
22 11 16 00-0819 EA 1/2" Brass Compression Female Connector.....	25.85	15.22
22 11 16 00-0820 EA 5/8" Brass Compression Female Connector.....	26.49	15.22
22 11 16 00-0821 EA 3/4" Brass Compression Female Connector.....	35.41	14.93
22 11 16 00-0822 Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	58.01	33.80
22 11 16 00-0825 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	65.04	38.59
22 11 16 00-0826 EA 1" Copper x Female Iron Pipe Thread Dielectric Union.....	76.24	42.41
22 11 16 00-0827 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	90.83	46.68
22 11 16 00-0828 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	108.31	51.87
22 11 16 00-0829 EA 2" Copper x Female Iron Pipe Thread Dielectric Union.....	136.35	62.24
22 11 16 00-0830 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	62.62	33.80
22 11 16 00-0832 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	72.63	38.59
22 11 16 00-0833 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	86.25	42.41
22 11 16 00-0834 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	104.11	46.68
22 11 16 00-0835 EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	124.74	51.87
22 11 16 00-0836 EA 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	155.62	62.24
22 11 16 00-0837 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838 EA 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	59.70	33.80
22 11 16 00-0839 EA 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	67.81	38.59
22 11 16 00-0840 EA 1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	76.97	42.41
22 11 16 00-0841 EA 1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	88.26	46.68
22 11 16 00-0842 EA 1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	105.77	51.87
22 11 16 00-0843 EA 2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	134.31	62.24
22 11 16 00-0844 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0845 EA 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	334.77	160.02
22 11 16 00-0846 EA 3" Copper x Female Iron Pipe Thread Dielectric Flange.....	419.48	201.51
22 11 16 00-0847 EA 4" Copper x Female Iron Pipe Thread Dielectric Flange.....	588.13	274.26
22 11 16 00-0848 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0849 EA 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	336.66	160.02
22 11 16 00-0850 EA 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	434.59	201.51
22 11 16 00-0851 EA 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	762.49	274.26
22 11 16 00-0852 Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0853 EA 1/4" x 1/4" Brass Push-Fit Coupling.....	27.68	14.09
Note: (Sharkbite)		
22 11 16 00-0854 EA 3/8" x 3/8" Brass Push-Fit Coupling.....	33.31	15.02
Note: (Sharkbite)		
22 11 16 00-0855 EA 1/2" x 1/2" Brass Push-Fit Coupling.....	35.08	16.91
Note: (Sharkbite)		
22 11 16 00-0856 EA 5/8" x 5/8" Brass Push-Fit Coupling.....	39.77	18.03
Note: (Sharkbite)		
22 11 16 00-0857 EA 3/4" x 3/4" Brass Push-Fit Coupling.....	40.91	19.25
Note: (Sharkbite)		
22 11 16 00-0858 EA 1" x 1" Brass Push-Fit Coupling.....	55.77	23.00
Note: (Sharkbite)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	34.19	15.96
	22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	39.15	17.47
	22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	56.24	21.13
	22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow Note: (Sharkbite)	28.62	14.09
	22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow Note: (Sharkbite)	37.34	15.02
	22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow Note: (Sharkbite)	35.60	16.91
	22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow Note: (Sharkbite)	42.11	18.03
	22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow Note: (Sharkbite)	40.24	19.25
	22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow Note: (Sharkbite)	56.29	23.00
	22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	33.76	15.96
	22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	37.48	17.47
	22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	67.78	21.13
	22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	43.32	21.13
	22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	53.06	22.54
	22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	50.60	25.35
	22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	62.18	27.04
	22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	58.73	28.87
	22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	78.17	34.50
	22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	54.86	23.94
	22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.31	24.41
	22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	56.62	27.71
	22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	75.48	32.63
	22 11 16 00-0881	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	15.50
	22 11 16 00-0882	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0883	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	16.91
	22 11 16 00-0884	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	37.05	19.25
	22 11 16 00-0885	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	50.35	23.00
	22 11 16 00-0886	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	29.17	15.50
	22 11 16 00-0887	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0888	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.46	16.91
	22 11 16 00-0889	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.76	19.25
	22 11 16 00-0890	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	38.98	18.63
	22 11 16 00-0891	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	46.25	21.13
	22 11 16 00-0892	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	50.95	23.00
	22 11 16 00-0893	EA		1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	43.59	16.91
	22 11 16 00-0894	EA		3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	50.75	19.25
	22 11 16 00-0895	EA		1" Brass Push-Fit Ball Valve Note: (Sharkbite)	66.01	23.00
	22 11 16 00-0896	EA		1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	46.19	16.91
	22 11 16 00-0897	EA		3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	55.14	19.25
	22 11 16 00-0898	EA		1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	88.85	23.00



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0899			Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly .....26.51	26.51	3.94
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....1.66		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-1.42		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....3.53		
			<i>For For Brazed Fittings, Add</i> .....0.88		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-2.43		
			<i>For Work In Restricted Working Space, Add</i> .....6.61		
22 11 16 00-0901	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly .....30.51	30.51	5.07
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....1.96		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-1.66		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....4.02		
			<i>For For Brazed Fittings, Add</i> .....1.00		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-2.77		
			<i>For Work In Restricted Working Space, Add</i> .....7.49		
22 11 16 00-0902	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly .....33.41	33.41	6.05
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....2.31		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-1.92		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....4.29		
			<i>For For Brazed Fittings, Add</i> .....1.05		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-2.98		
			<i>For Work In Restricted Working Space, Add</i> .....7.85		
22 11 16 00-0903	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly .....37.21	37.21	7.04
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....2.84		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-2.29		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....4.58		
			<i>For For Brazed Fittings, Add</i> .....1.09		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-3.22		
			<i>For Work In Restricted Working Space, Add</i> .....8.15		
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> .....-1.00		
22 11 16 00-0904	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly .....41.21	41.21	8.03
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....3.29		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-2.63		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....4.96		
			<i>For For Brazed Fittings, Add</i> .....1.16		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-3.51		
			<i>For Work In Restricted Working Space, Add</i> .....8.70		
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> .....-1.22		
22 11 16 00-0905	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly .....51.36	51.36	10.00
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....4.47		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-3.49		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....5.90		
			<i>For For Brazed Fittings, Add</i> .....1.33		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-4.24		
			<i>For Work In Restricted Working Space, Add</i> .....10.01		
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> .....-1.80		
22 11 16 00-0906	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly .....62.56	62.56	12.06
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....6.10		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-4.64		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....6.71		
			<i>For For Brazed Fittings, Add</i> .....1.43		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-4.92		
			<i>For Work In Restricted Working Space, Add</i> .....10.73		
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> .....-2.68		
22 11 16 00-0907	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly .....75.56	75.56	14.00
			Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Type K Tubing Instead Of Type L, Add</i> .....7.97		
			<i>For Type M Tubing Instead Of Type L, Deduct</i> .....-5.97		
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i> .....7.65		
			<i>For For Brazed Fittings, Add</i> .....1.55		
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> .....-5.72		
			<i>For Work In Restricted Working Space, Add</i> .....11.63		
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> .....-3.68		



Plumbing	22
Plumbing Piping	22 10
Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0908 LF 4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	116.55 13.59 -9.98 10.84 2.00 -8.33 15.03 -6.64	18.54
22 11 16 00-0909 LF 5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	209.38 27.87 -19.98 16.90 2.57 -13.69 19.30 -14.51	23.08
22 11 16 00-0910 LF 6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	273.59 36.73 -26.30 21.85 3.27 -17.76 24.51 -19.19	27.88
22 11 16 00-0911 LF 8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	610.72 92.87 -65.16 40.69 4.06 -35.61 30.46 -50.92	33.33
22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915 LF 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.84 1.55	2.07
22 11 16 00-0916 LF 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.08 1.63	2.18
22 11 16 00-0917 LF 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.21 1.76	2.34
22 11 16 00-0918 LF 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.79 1.92	2.56
22 11 16 00-0919 LF 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	16.01 2.12	2.83
22 11 16 00-0920 LF 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	20.28 2.37	3.16
22 11 16 00-0921 LF 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	27.92 2.69	3.59
22 11 16 00-0922 LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	35.92 3.19	4.26
22 11 16 00-0923 LF 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	50.17 3.92	5.22
22 11 16 00-0924 LF 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	88.38 4.98	6.64
22 11 16 00-0925 LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	127.63 6.53	8.71
22 11 16 00-0926 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0927 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	28.80 7.39	9.86
22 11 16 00-0928 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	37.59 9.34	12.44
22 11 16 00-0929 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	49.26 11.71	15.56
22 11 16 00-0930 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	68.45 14.63	19.45
22 11 16 00-0931 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	76.19 16.18	21.53



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	90.16 18.05	21.53
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.58 20.54	27.36
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.79 24.28	32.42
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	241.14 29.88	39.81
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	303.99 37.97	50.57
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	600.22 49.80	66.39
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	30.88 7.39	9.86
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	40.08 9.34	12.44
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	53.30 11.71	15.56
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	73.77 14.63	19.45
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.66 16.18	21.53
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.35 18.05	24.12
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.97 20.54	27.36
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.62 24.28	32.42
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.78 29.88	39.81
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	351.53 37.97	50.57
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	633.90 49.80	66.39
22 11 16 00-0950			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)		
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	44.53 11.09	14.78
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	58.76 14.00	18.67
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	73.46 17.58	23.47
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	104.45 21.94	29.31
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	116.80 24.28	32.42
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	143.77 27.08	36.05
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	190.62 30.81	41.11
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	217.04 36.41	48.50
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	262.40 44.82	59.78
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	410.65 56.95	75.99
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	881.14 74.69	99.59
22 11 16 00-0962			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)		
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	55.80 14.78	19.71
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	72.64 18.67	24.90
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	90.85 23.42	31.25
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	124.49 29.26	39.03
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	138.80 32.37	43.18
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	166.43 36.10	48.11
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	212.66 41.08	54.72
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	244.22 48.55	64.71
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	296.51 59.75	79.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	443.31 75.94	101.28
	22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	876.47 99.59	132.79
22 11 16 00-0974				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	25.32 6.85	9.07
	22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	35.58 9.22	12.31
	22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	62.38 12.06	16.08
	22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	70.66 13.34	17.77
	22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	84.05 14.90	19.84
	22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	90.92 16.96	22.57
	22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	110.80 20.03	26.71
	22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	152.76 24.66	32.81
	22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	254.66 31.32	41.75
	22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	589.07 41.08	54.72
22 11 16 00-0985				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.50 4.86	6.48
	22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	40.39 6.85	9.07
	22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	49.56 9.22	12.31
	22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
	22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	72.44 13.34	17.77
	22 11 16 00-0991	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	92.95 14.90	19.84
	22 11 16 00-0992	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	149.04 16.96	22.57
	22 11 16 00-0993	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	308.39 20.03	26.71
	22 11 16 00-0994	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	463.00 24.66	32.81
22 11 16 00-0995				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0996	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	22.45 4.86	6.48
	22 11 16 00-0997	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	31.27 6.85	9.07
	22 11 16 00-0998	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	44.94 9.22	12.31
	22 11 16 00-0999	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
	22 11 16 00-1000	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	72.85 13.34	17.77
	22 11 16 00-1001	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	88.03 14.90	19.84
	22 11 16 00-1002	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	129.17 16.96	22.57
	22 11 16 00-1003	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	154.60 20.03	26.71
	22 11 16 00-1004	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	230.69 24.66	32.81
22 11 16 00-1005				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0913)</small>		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	24.82	6.48
<i>For Work In Restricted Working Space, Add</i>	4.86	
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	32.02	9.07
<i>For Work In Restricted Working Space, Add</i>	6.85	
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	45.14	12.31
<i>For Work In Restricted Working Space, Add</i>	9.22	
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	61.87	16.08
<i>For Work In Restricted Working Space, Add</i>	12.06	
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	69.67	17.77
<i>For Work In Restricted Working Space, Add</i>	13.34	
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	85.44	19.84
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	130.67	22.57
<i>For Work In Restricted Working Space, Add</i>	16.96	
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	180.83	26.71
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	275.29	32.81
<i>For Work In Restricted Working Space, Add</i>	24.66	
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	20.10	5.97
<i>For Work In Restricted Working Space, Add</i>	4.43	
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	28.25	8.30
<i>For Work In Restricted Working Space, Add</i>	6.22	
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	37.99	11.15
<i>For Work In Restricted Working Space, Add</i>	8.36	
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	51.65	14.66
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	59.47	16.21
<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	67.20	18.03
<i>For Work In Restricted Working Space, Add</i>	13.54	
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	104.27	20.49
<i>For Work In Restricted Working Space, Add</i>	15.41	
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	114.13	24.25
<i>For Work In Restricted Working Space, Add</i>	18.21	
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	144.71	29.83
<i>For Work In Restricted Working Space, Add</i>	22.41	
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	233.06	38.00
<i>For Work In Restricted Working Space, Add</i>	28.48	
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	404.41	49.80
<i>For Work In Restricted Working Space, Add</i>	37.35	
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	40.42	7.13
<i>For Work In Restricted Working Space, Add</i>	5.33	
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	48.65	9.98
<i>For Work In Restricted Working Space, Add</i>	7.47	
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	57.95	13.36
<i>For Work In Restricted Working Space, Add</i>	10.04	
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	101.43	17.51
<i>For Work In Restricted Working Space, Add</i>	13.15	
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	107.14	19.45
<i>For Work In Restricted Working Space, Add</i>	14.55	
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	151.50	21.66
<i>For Work In Restricted Working Space, Add</i>	16.26	
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	263.34	24.64
<i>For Work In Restricted Working Space, Add</i>	18.48	
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	377.76	29.18
<i>For Work In Restricted Working Space, Add</i>	21.86	
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	607.90	35.80
<i>For Work In Restricted Working Space, Add</i>	26.88	
22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	813.85	45.51
<i>For Work In Restricted Working Space, Add</i>	34.16	
22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	1,004.44	59.78
<i>For Work In Restricted Working Space, Add</i>	44.82	
22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	17.63	6.10
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	23.57	7.65
<i>For Work In Restricted Working Space, Add</i>	3.50	
22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	35.67	9.60
<i>For Work In Restricted Working Space, Add</i>	4.39	
22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	41.34	7.26
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	43.75	8.04
<i>For Work In Restricted Working Space, Add</i>	6.07	
22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	60.43	9.07
<i>For Work In Restricted Working Space, Add</i>	6.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	93.84 7.70	10.24
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	100.08 9.10	12.19
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	154.97 11.20	14.91
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	340.15 14.24	18.93
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	438.06 18.67	24.90
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	32.02 3.54	4.67
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	38.27 4.98	6.61
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	46.45 6.69	8.94
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	54.15 8.79	11.67
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	57.84 9.73	12.97
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	69.85 10.82	14.40
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	93.87 12.33	16.47
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	106.04 14.55	19.45
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	132.69 17.93	23.86
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	190.61 22.80	30.34
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	358.19 29.88	39.81
22 11 16 00-1063			Cross-Linked Polyethylene Tubing, ASTM F877 <small>(22 11 16)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1064			Cross-Linked Polyethylene Tubing <small>(22 11 16 00-1063)</small>		
22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.08 1.22	
22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.52 1.32	
22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	6.81 1.43	
22 11 16 00-1068	LF		1" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	8.55 1.51	
22 11 16 00-1069			Cross-Linked Polyethylene Forged Brass PEX Fittings <small>(22 11 16 00-1063)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1070			Male Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1071	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.46 6.34	
22 11 16 00-1072	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.50 6.76	
22 11 16 00-1073	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1074	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.55 7.61	
22 11 16 00-1075	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1076	EA		1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.86 8.45	
22 11 16 00-1077			Female Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1078	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.12 6.76	
22 11 16 00-1079	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1080	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.27 7.61	
22 11 16 00-1081	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1082	EA		1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.64 8.45	
22 11 16 00-1083			Tube Adapters <small>(22 11 16 00-1069)</small>		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1084	EA		3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing	23.93	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1085	EA		1/2" Forged Brass Tube Adapter For PEX Tubing	25.34	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1086	EA		3/4" Forged Brass Tube Adapter For PEX Tubing	30.53	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1087	EA		1" Forged Brass Tube Adapter For PEX Tubing	39.27	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1088			Plugs <small>(22 11 16 00-1069)</small>		
22 11 16 00-1089	EA		3/8" Forged Brass Plug For PEX Tubing.....	12.04	
			<i>For Work In Restricted Working Space, Add</i>	2.96	
22 11 16 00-1090	EA		1/2" Forged Brass Plug For PEX Tubing.....	13.44	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 11 16 00-1091	EA		3/4" Forged Brass Plug For PEX Tubing.....	15.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-1092	EA		1" Forged Brass Plug For PEX Tubing.....	19.27	
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 11 16 00-1093			Tees <small>(22 11 16 00-1069)</small>		
22 11 16 00-1094	EA		3/8" Forged Brass Tee For PEX Tubing.....	34.14	
			<i>For Work In Restricted Working Space, Add</i>	8.87	
22 11 16 00-1095	EA		1/2" Forged Brass Tee For PEX Tubing.....	38.36	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-1096	EA		3/4" Forged Brass Tee For PEX Tubing.....	45.69	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1097	EA		1" Forged Brass Tee For PEX Tubing.....	58.69	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-1098	EA		1/2" Forged Brass Reducing Tee For PEX Tubing	36.95	
			<i>For Work In Restricted Working Space, Add</i>	9.72	
22 11 16 00-1099	EA		3/4" Forged Brass Reducing Tee For PEX Tubing	42.88	
			<i>For Work In Restricted Working Space, Add</i>	10.56	
22 11 16 00-1100	EA		1" Forged Brass Reducing Tee For PEX Tubing	53.21	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1101			Couplings <small>(22 11 16 00-1069)</small>		
22 11 16 00-1102	EA		3/8" Forged Brass Coupling For PEX Tubing.....	22.06	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1103	EA		1/2" Forged Brass Coupling For PEX Tubing.....	25.03	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1104	EA		3/4" Forged Brass Coupling For PEX Tubing.....	28.62	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1105	EA		1" Forged Brass Coupling For PEX Tubing.....	35.06	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1106	EA		3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing.....	27.21	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1107	EA		1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing.....	33.65	
			<i>For Work In Restricted Working Space, Add</i>	8.03	
22 11 16 00-1108			Fitting Reducers <small>(22 11 16 00-1069)</small>		
22 11 16 00-1109	EA		3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing	24.40	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1110	EA		1/2" Forged Brass Fitting Reducer For PEX Tubing	25.81	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1111	EA		3/4" Forged Brass Fitting Reducer For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1112	EA		1" Forged Brass Fitting Reducer For PEX Tubing	44.60	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1113			90 Degree Elbows <small>(22 11 16 00-1069)</small>		
22 11 16 00-1114	EA		3/8" Forged Brass 90 Degree Elbow For PEX Tubing	23.46	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1115	EA		1/2" Forged Brass 90 Degree Elbow For PEX Tubing	26.28	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1116	EA		3/4" Forged Brass 90 Degree Elbow For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1117	EA		3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing	30.05	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1118	EA		1/2" Drop 90 Degree Elbow For PEX Tubing.....	36.01	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1119	EA		3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	40.22	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1120	EA		3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	38.81	
			<i>For Work In Restricted Working Space, Add</i>	7.18	

22 11 19 Domestic Water Piping Specialties (22 11)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)		
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.28	2.80
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.28	2.80
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.65	2.80
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.71	2.80
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	12.42	4.21
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	18.81	4.21
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	20.54	5.61
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	36.29	5.61
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)		
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	46.49	5.61
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	54.53	5.61
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	76.51	6.89
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	106.49	9.32
22 11 19 00-0016 Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,268.47	316.33
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,685.05	316.33
22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose.....	447.80	85.68
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose.....	469.19	85.68
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	32.60	11.78
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	34.72	12.63
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	37.11	13.46
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	42.91	15.14
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling.....	50.71	18.51
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling.....	60.38	22.16
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling.....	78.40	29.16
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling.....	98.42	36.46
22 11 19 00-0031 Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	14.41	4.21
22 11 19 00-0033 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	15.25	4.21
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	16.16	4.21
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	17.20	4.21
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	18.41	4.21
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	19.90	5.61
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	21.49	5.61
22 11 19 00-0039 Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040 Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	283.96	21.13
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	175.10	14.09
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	169.94	14.09
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....	160.44	28.17
Note: Can be used for two, three or four drains.		
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....	174.31	28.17
Note: Can be used for two, three or four drains.		
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Manifold.....	229.82	37.88
22 11 19 00-0049 EA Four Outlet Manifold.....	341.85	43.10
22 11 19 00-0050 EA Six Outlet Manifold.....	450.23	45.64
22 11 19 00-0051 EA Eight Outlet Manifold.....	564.74	53.52
22 11 19 00-0052 Sewage Air Release Valves (22 11 19)		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0054 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	873.30	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0055 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,084.49	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0056 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,374.93	108.49
For Back Flush Attachment, Add	650.00	
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0058 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....	891.64	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0059 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....	1,721.71	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0060 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....	2,079.66	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0061 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,069.46	108.49
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0063 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	1,873.05	51.43
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,572.41	51.43
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,024.37	85.94
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	3,700.04	108.49
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	114.35	35.21
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	130.68	39.43
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	248.95	45.07
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	385.76	52.11
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	460.03	57.74
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	665.25	70.43
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,694.29	88.03
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	300.37	35.21
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	266.92	39.43
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	375.48	45.07
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	664.13	52.11
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	807.41	57.74
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	820.85	70.43
22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	267.29	16.84
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	516.13	20.38
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	751.78	20.38
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,823.38	20.38
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	2,052.91	20.38
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	2,513.33	20.38
22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	161.00	9.39
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	306.11	10.83
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	453.03	11.74
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,108.49	15.15
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,350.25	18.78
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,536.05	20.38



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0097 Wall Hydrants <small>(22 11 19)</small> Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0098 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0099 EA 6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	780.00	35.21
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0100 EA 12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	826.10	42.26
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0101 EA 18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	854.95	50.85
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0102 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0103 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	812.28	59.15
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0104 Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0105 EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	449.95	43.67
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0106 EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0107 EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0108 EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0109 EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0110 EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0111 EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	637.52	88.03
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0112 Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0097)</small> Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0113 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	402.66	35.21
22 11 19 00-0114 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	436.59	35.21
22 11 19 00-0115 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	441.21	35.21
22 11 19 00-0116 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	492.10	35.21
22 11 19 00-0117 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	686.74	49.30
Note: Includes hot and cold hose connections.		
22 11 19 00-0118 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	706.79	49.30
Note: Includes hot and cold hose connections.		
22 11 19 00-0119 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	706.79	49.30
Note: Includes hot and cold hose connections.		
22 11 19 00-0120 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	754.60	49.30
Note: Includes hot and cold hose connections.		
22 11 19 00-0121 Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		
22 11 19 00-0122 Dryer Vent Kit <small>(22 11 19 00-0121)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0123 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	97.94	18.31
22 11 19 00-0124 Washer Boxes And Dryer Vents <small>(22 11 19 00-0121)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	347.91	28.17
22 11 19 00-0126 Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	174.76	28.17
22 11 19 00-0128 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	214.53	28.17
22 11 19 00-0129 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	236.43	28.17
22 11 19 00-0130 Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0131 Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	483.55	34.09
22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	147.78	34.09
22 11 19 00-0134 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	281.62	34.09
22 11 19 00-0135 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	326.21	45.93
22 11 19 00-0136 Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)		
Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,294.59	49.17
22 11 19 00-0138 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,455.39	60.56
22 11 19 00-0139 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,748.66	70.45
22 11 19 00-0140 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,259.38	74.04
22 11 19 00-0141 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,031.90	96.06
22 11 19 00-0142 High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)		
Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	3,279.05	75.73
22 11 19 00-0144 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	4,263.36	88.05
22 11 19 00-0145 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	4,967.81	92.55
22 11 19 00-0146 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	5,511.10	120.07
22 11 19 00-0147 Thermostatic Mixing Valves (Leonard) (22 11 19 00-0130)		
Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	945.02	49.17
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,113.77	60.55
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,367.11	70.45
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,666.24	74.06
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	2,469.37	96.06
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0153 Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0130)		
Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,155.11	70.43
22 11 19 00-0155 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,351.39	88.73
22 11 19 00-0156 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,697.42	107.04
22 11 19 00-0157 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,075.22	125.35
22 11 19 00-0158 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,834.97	164.79
22 11 19 00-0159 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,691.36	187.90
22 11 19 00-0160 Thermostatic Mixing Valves (Holby) (22 11 19 00-0130)		
22 11 19 00-0161 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	4,368.52	96.08
22 11 19 00-0162 Backflow Preventer Valves (22 11 19)		
22 11 19 00-0163 Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0162)		
22 11 19 00-0164 Threaded Double Check Valve Assemblies (22 11 19 00-0163)		
22 11 19 00-0165 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0164)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0166 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	387.69	37.74
For Work In Restricted Working Space, Add		
	28.31	
For Owner Furnished Material, Deduct		
	-293.33	
22 11 19 00-0167 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	464.94	53.52
For Work In Restricted Working Space, Add		
	40.14	
For Owner Furnished Material, Deduct		
	-331.14	
22 11 19 00-0168 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	539.09	65.35
For Work In Restricted Working Space, Add		
	49.01	
For Owner Furnished Material, Deduct		
	-375.71	
22 11 19 00-0169 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	742.12	76.06
For Work In Restricted Working Space, Add		
	57.04	
For Owner Furnished Material, Deduct		
	-551.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0170	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	912.91	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-696.01	
22 11 19 00-0171	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,062.00	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-780.32	
22 11 19 00-0172			Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer		
			<small>(22 11 19 00-0164)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0173	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	471.63	37.74
			<i>For Work In Restricted Working Space, Add</i>	28.31	
			<i>For Owner Furnished Material, Deduct</i>	-377.27	
22 11 19 00-0174	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	587.88	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-454.08	
22 11 19 00-0175	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	689.81	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-526.43	
22 11 19 00-0176	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	956.86	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-766.72	
22 11 19 00-0177	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,165.83	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-948.93	
22 11 19 00-0178	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,411.19	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,129.51	
22 11 19 00-0179			Flanged Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0180			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0181	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	4,968.17	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-4,553.21	
22 11 19 00-0182	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	5,460.25	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,999.90	
22 11 19 00-0183			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0184	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	5,430.98	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,016.02	
22 11 19 00-0185	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	6,231.59	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-5,771.24	
22 11 19 00-0186			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,001.54	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-4,586.60	
22 11 19 00-0188	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,860.42	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,400.06	
22 11 19 00-0189	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,034.20	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-5,342.97	
22 11 19 00-0190	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	9,186.98	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,895.86	
22 11 19 00-0191	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	20,713.74	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.10	
			<i>For Owner Furnished Material, Deduct</i>	-18,776.74	
22 11 19 00-0192	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	26,555.34	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-24,249.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0193 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	7,011.56	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-6,320.39	
22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	11,643.20	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-10,352.08	
22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	30,745.65	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-28,440.06	
22 11 19 00-0197 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	5,304.32	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-4,889.38	
22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	5,829.80	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-5,369.45	
22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,388.73	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,697.56	
22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	10,694.57	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-9,403.45	
22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	21,965.45	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-20,028.76	
22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	28,170.81	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-25,865.22	
22 11 19 00-0204 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,212.60	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-2,797.66	
22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,537.94	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-3,077.59	
22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,048.69	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-3,357.52	
22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	6,541.07	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-5,249.95	
22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	12,316.29	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-10,379.60	
22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	13,412.50	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-11,106.91	
22 11 19 00-0211 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0212 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,205.27	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-3,790.33	
22 11 19 00-0213 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,530.61	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,070.26	
22 11 19 00-0214 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	5,707.48	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,016.31	
22 11 19 00-0215 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	9,317.96	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-8,026.84	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0216	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	16,431.91	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-14,495.22	
22 11 19 00-0217	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	19,554.04	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-17,248.45	
22 11 19 00-0218			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0219	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,015.16	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-2,600.22	
22 11 19 00-0220	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,349.48	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-2,889.13	
22 11 19 00-0221	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,869.09	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-3,177.92	
22 11 19 00-0222	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	6,399.99	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,108.87	
22 11 19 00-0223	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	12,180.33	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-10,243.64	
22 11 19 00-0224	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	13,792.12	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-11,486.53	
22 11 19 00-0225			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0226	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,924.60	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-3,509.66	
22 11 19 00-0227	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,249.94	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,789.59	
22 11 19 00-0228	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,427.15	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-4,735.98	
22 11 19 00-0229	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	9,019.38	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,728.26	
22 11 19 00-0230	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	15,979.99	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-14,043.30	
22 11 19 00-0231	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	19,100.79	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-16,795.20	
22 11 19 00-0232			Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0233	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,482.11	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-3,067.17	
22 11 19 00-0234	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,807.45	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,347.10	
22 11 19 00-0235	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,318.20	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-3,627.03	
22 11 19 00-0236	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	6,817.37	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,526.25	
22 11 19 00-0237	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	12,592.59	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-10,655.90	
22 11 19 00-0238			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0239	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	4,474.78	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-4,059.84	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0240 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,800.12 138.11 -4,339.77	350.13
22 11 19 00-0241 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,976.98 207.35 -5,285.81	518.70
22 11 19 00-0242 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,594.32 387.34 -8,303.20	714.73
22 11 19 00-0243 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,592.59 581.01 -10,655.90	1,072.10
22 11 19 00-0244 Grooved Double Check Valve Assemblies (22 11 19 00-0163)		
22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,015.16 124.48 -2,600.22	165.99
22 11 19 00-0247 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,349.48 138.11 -2,889.13	184.14
22 11 19 00-0248 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,924.60 124.48 -3,509.66	165.99
22 11 19 00-0250 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,249.94 138.11 -3,789.59	184.14
22 11 19 00-0251 Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0162)		
22 11 19 00-0252 Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0251)		
22 11 19 00-0253 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0254 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	422.86 24.51 -341.17	32.67
22 11 19 00-0255 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	447.87 27.04 -357.73	36.05
22 11 19 00-0256 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	518.13 28.31 -423.77	37.74
22 11 19 00-0257 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	698.18 40.14 -564.38	53.52
22 11 19 00-0258 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	829.90 49.01 -666.52	65.35
22 11 19 00-0259 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,235.71 57.04 -1,045.57	76.06
22 11 19 00-0260 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,311.65 65.07 -1,094.75	87.32
22 11 19 00-0261 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,580.77 84.50 -1,299.09	112.67
22 11 19 00-0262 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	464.16 24.51 -382.47	32.67
22 11 19 00-0264 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	491.40 27.04 -401.26	36.05



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0265	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	577.78	53.52
			<i>For Work In Restricted Working Space, Add</i>	28.31	
			<i>For Owner Furnished Material, Deduct</i>	-483.42	
22 11 19 00-0266	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	791.93	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0267	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	947.11	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0268	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,395.56	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0269	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,537.24	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0270	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,857.54	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0271			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	698.18	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-564.38	
22 11 19 00-0273	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	829.90	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-666.52	
22 11 19 00-0274	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,235.71	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,045.57	
22 11 19 00-0275	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,311.65	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,094.75	
22 11 19 00-0276	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,580.77	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,299.09	
22 11 19 00-0277			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	791.93	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0279	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	947.11	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0280	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,395.56	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0281	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,537.24	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0282	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,857.54	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0283			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,394.45	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-1,260.65	
22 11 19 00-0285	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,652.17	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-1,488.79	
22 11 19 00-0286	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,522.55	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-2,332.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,730.76	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-2,513.86	
22 11 19 00-0288 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	3,177.56	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-2,895.88	
22 11 19 00-0289 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	1,863.05	53.52
<i>For Work In Restricted Working Space, Add</i>	40.14	
<i>For Owner Furnished Material, Deduct</i>	-1,729.25	
22 11 19 00-0291 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,216.07	65.35
<i>For Work In Restricted Working Space, Add</i>	49.01	
<i>For Owner Furnished Material, Deduct</i>	-2,052.69	
22 11 19 00-0292 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,359.58	76.06
<i>For Work In Restricted Working Space, Add</i>	57.04	
<i>For Owner Furnished Material, Deduct</i>	-3,169.44	
22 11 19 00-0293 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,672.85	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-3,455.95	
22 11 19 00-0294 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	4,370.50	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-4,088.82	
22 11 19 00-0295 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	4,580.20	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,165.24	
22 11 19 00-0298 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	5,158.62	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-4,698.27	
22 11 19 00-0299 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0301 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	
22 11 19 00-0302 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	4,907.16	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,492.20	
22 11 19 00-0304 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	5,702.01	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,241.66	
22 11 19 00-0305 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0307 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0308			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,018.12	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,603.16	
22 11 19 00-0310	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,958.03	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,497.68	
22 11 19 00-0311			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,770.31	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,355.37	
22 11 19 00-0313	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	8,824.23	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,363.87	
22 11 19 00-0314	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,146.93	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-10,455.70	
22 11 19 00-0315	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	16,999.48	714.73
			<i>For Work In Restricted Working Space, Add</i>	542.31	
			<i>For Owner Furnished Material, Deduct</i>	-15,191.79	
22 11 19 00-0316	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	28,117.72	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	813.46	
			<i>For Owner Furnished Material, Deduct</i>	-25,406.18	
22 11 19 00-0317	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	35,955.51	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-33,649.92	
22 11 19 00-0318			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0319	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	8,363.20	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,948.26	
22 11 19 00-0320	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,448.20	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,987.85	
22 11 19 00-0321	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,103.56	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-11,412.39	
22 11 19 00-0322	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	18,283.64	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,992.52	
22 11 19 00-0323	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	29,566.06	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-27,629.37	
22 11 19 00-0324	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	40,037.26	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-37,731.67	
22 11 19 00-0325			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	8,258.44	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,843.50	
22 11 19 00-0327	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,383.74	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,923.38	
22 11 19 00-0328	EA		4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,842.29	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-11,151.06	
22 11 19 00-0329	EA		6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	17,496.57	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,205.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0330	EA		8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	29,037.41	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-27,100.72	
22 11 19 00-0331	EA		10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	38,197.58	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-35,891.99	
22 11 19 00-0332			Double Check Detector Assemblies (22 11 19 00-0162)		
22 11 19 00-0333			Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0332)		
22 11 19 00-0334			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,243.16	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-5,782.81	
22 11 19 00-0336	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,608.16	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-5,916.99	
22 11 19 00-0337	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,974.54	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,683.42	
22 11 19 00-0338	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	15,824.91	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-13,888.22	
22 11 19 00-0339	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	21,286.10	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-18,980.51	
22 11 19 00-0340			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,699.07	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-4,284.11	
22 11 19 00-0342	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,024.10	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,563.75	
22 11 19 00-0343	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,541.46	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-4,850.29	
22 11 19 00-0344	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	7,589.18	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-6,298.06	
22 11 19 00-0345	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	13,320.99	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-11,384.30	
22 11 19 00-0346	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	15,714.77	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-13,409.18	
22 11 19 00-0347			Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0333)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0348	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,968.63	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-4,553.67	
22 11 19 00-0349	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,293.66	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,833.31	
22 11 19 00-0350	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,810.97	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-5,119.80	
22 11 19 00-0351	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,865.48	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-6,574.36	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0352	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,989.49 581.01 -11,052.80	1,072.10
22 11 19 00-0353			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0355	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,613.96 124.49	311.22
22 11 19 00-0356	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,939.02 138.11	350.13
22 11 19 00-0357	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	5,456.39 207.35	518.70
22 11 19 00-0358	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	7,504.10 387.34	714.73
22 11 19 00-0359	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	13,235.97 581.01	1,072.10
22 11 19 00-0360	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	15,629.64 691.68	1,268.07
22 11 19 00-0361			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0362	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,883.50 124.49	311.22
22 11 19 00-0363	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,208.53 138.11	350.13
22 11 19 00-0364	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,725.90 207.35	518.70
22 11 19 00-0365	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	7,780.34 387.34	714.73
22 11 19 00-0366	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	13,512.27 581.01	1,072.10
22 11 19 00-0367			Flanged Double Check Detector Assemblies <small>(22 11 19 00-0332)</small>		
22 11 19 00-0368			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0367)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0369	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,459.95 124.49 -4,044.99	311.22
22 11 19 00-0370	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,384.44 138.11 -4,924.09	350.13
22 11 19 00-0371	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,033.34 207.35 -5,342.17	518.70
22 11 19 00-0372	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,684.96 387.34 -6,393.84	714.73
22 11 19 00-0373	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,494.20 581.01 -11,557.51	1,072.10
22 11 19 00-0374	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	18,100.69 691.68 -15,795.10	1,268.07
22 11 19 00-0375	EA		12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	24,065.32 830.01 -21,298.62	1,521.68
22 11 19 00-0376			Backflow Preventer Accessories <small>(22 11 19 00-0162)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0377 Air Gap <small>(22 11 19 00-0376)</small>		
22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer	113.27	17.61
22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	139.04	21.13
22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	253.33	28.17
22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer	496.78	49.30
22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer	539.03	70.43
22 11 19 00-0383 Brass Test Cocks <small>(22 11 19 00-0376)</small>		
22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock	46.03	7.04
22 11 19 00-0385 Backflow Valve Enclosures <small>(22 11 19 00-0162)</small>		
22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	863.06	126.76
For Heated Enclosure, Add	97.77	
22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,045.44	126.76
For Heated Enclosure, Add	125.13	
22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,301.45	116.71
For Heated Enclosure, Add	166.04	
22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,371.04	155.61
For Heated Enclosure, Add	166.75	
22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,432.89	155.61
For Heated Enclosure, Add	176.03	
22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,673.95	155.61
For Heated Enclosure, Add	212.19	
22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,680.29	155.61
For Heated Enclosure, Add	213.14	
22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,091.03	155.61
For Heated Enclosure, Add	274.75	
22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,748.58	233.41
For Heated Enclosure, Add	653.93	
22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,821.31	233.41
For Heated Enclosure, Add	964.84	
22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,488.28	233.41
For Heated Enclosure, Add	914.89	
22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,807.54	272.32
For Heated Enclosure, Add	1,103.05	
22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	452.81	33.80
For Heated Enclosure, Add	79.29	
22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	620.91	33.80
For Heated Enclosure, Add	112.91	
22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	771.85	31.12
For Heated Enclosure, Add	144.00	
22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,155.64	31.12
For Heated Enclosure, Add	220.75	
22 11 19 00-0404 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,977.20	58.35
For Heated Enclosure, Add	575.99	
22 11 19 00-0405 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,050.83	58.35
For Heated Enclosure, Add	790.71	
22 11 19 00-0406 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,710.77	58.35
For Heated Enclosure, Add	522.70	
22 11 19 00-0407 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,062.84	58.35
For Heated Enclosure, Add	593.12	
22 11 19 00-0408 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,770.82	58.35
For Heated Enclosure, Add	934.71	
22 11 19 00-0409 Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0410 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,150.69	253.52
For Heated Enclosure, Add	859.22	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0411 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,764.42	253.52
For Heated Enclosure, Add	951.28	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0412 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,823.11	233.41
For Heated Enclosure, Add	665.11	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0413 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	5,276.67	233.41
For Heated Enclosure, Add	733.15	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,162.81	311.22
			<i>For Heated Enclosure, Add</i>	846.62	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,889.14	311.22
			<i>For Heated Enclosure, Add</i>	955.57	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,889.14	311.22
			<i>For Heated Enclosure, Add</i>	955.57	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,593.27	311.22
			<i>For Heated Enclosure, Add</i>	1,061.19	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	5,723.71	272.32
			<i>For Heated Enclosure, Add</i>	790.48	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,697.25	311.22
			<i>For Heated Enclosure, Add</i>	926.78	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,796.26	311.22
			<i>For Heated Enclosure, Add</i>	1,091.63	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,551.83	330.67
			<i>For Heated Enclosure, Add</i>	1,200.11	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,781.68	359.15
			<i>For Heated Enclosure, Add</i>	1,227.46	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0423	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,724.00	380.28
			<i>For Heated Enclosure, Add</i>	1,363.53	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0424	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,036.91	350.13
			<i>For Heated Enclosure, Add</i>	1,418.01	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0425	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,320.50	311.22
			<i>For Heated Enclosure, Add</i>	1,020.27	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0426	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,791.50	311.22
			<i>For Heated Enclosure, Add</i>	1,090.92	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0427	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,803.99	330.67
			<i>For Heated Enclosure, Add</i>	1,237.93	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0428	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,641.13	350.13
			<i>For Heated Enclosure, Add</i>	1,508.64	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0429	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,310.58	155.61
			<i>For Heated Enclosure, Add</i>	1,309.06	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0430	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,158.82	155.61
			<i>For Heated Enclosure, Add</i>	1,581.43	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0431	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,795.66	233.41
			<i>For Heated Enclosure, Add</i>	1,526.96	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0432	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,514.56	233.41
			<i>For Heated Enclosure, Add</i>	1,775.06	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0433	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,554.40	233.41
			<i>For Heated Enclosure, Add</i>	1,635.90	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0434	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,488.98	272.32
			<i>For Heated Enclosure, Add</i>	1,916.37	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0435 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,553.82 1,916.37 663.22 1,186.81	233.41
22 11 19 00-0436 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	16,052.97 2,281.51 663.22 1,186.81	233.41
22 11 19 00-0437 Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0438 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0439 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	70.87	14.09
22 11 19 00-0440 EA 3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	82.69	15.50
22 11 19 00-0441 EA 3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	26.42	10.56
22 11 19 00-0442 Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0443 EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	224.24	43.10
22 11 19 00-0444 Antisiphon Freezeless Wall Faucet (22 11 19 00-0437)		
22 11 19 00-0445 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet	181.48	35.21
22 11 19 00-0446 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet	196.16	39.01
22 11 19 00-0447 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet	207.31	41.26
22 11 19 00-0448 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet	218.45	44.23
22 11 19 00-0449 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet	229.73	46.90
22 11 19 00-0450 Escutcheons (22 11 19)		
22 11 19 00-0451 Brass Escutcheons (22 11 19 00-0450)		
22 11 19 00-0452 Shallow Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	13.61	3.52
22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	14.48	3.52
22 11 19 00-0455 Deep Bell Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0456 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.62	3.94
22 11 19 00-0457 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.65	3.94
22 11 19 00-0458 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0451)		
22 11 19 00-0459 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.68	3.52
22 11 19 00-0460 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.93	3.52
22 11 19 00-0461 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.30	3.52
22 11 19 00-0462 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.65	3.52
22 11 19 00-0463 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.10	4.22
22 11 19 00-0464 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.41	4.22
22 11 19 00-0465 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	29.48	4.65
22 11 19 00-0466 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.86	4.93
22 11 19 00-0467 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	43.98	5.63
22 11 19 00-0468 Plastic Escutcheons (22 11 19 00-0450)		
22 11 19 00-0469 Split-Ring White Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0470 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0471 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0472 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	9.20	3.92
22 11 19 00-0473 EA 1" IPS, Split-Ring White Plastic Escutcheon	9.99	4.21
22 11 19 00-0474 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.78	4.63
22 11 19 00-0475 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.55	4.91
22 11 19 00-0476 EA 2" IPS, Split-Ring White Plastic Escutcheon	13.07	5.61
22 11 19 00-0477 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	15.90	6.03
22 11 19 00-0478 EA 3" IPS, Split-Ring White Plastic Escutcheon	18.74	6.31
22 11 19 00-0479 EA 4" IPS, Split-Ring White Plastic Escutcheon	22.25	7.02
22 11 19 00-0480 Chrome Plate Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0481 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	9.78	3.50
22 11 19 00-0482 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	10.69	3.92
22 11 19 00-0483 EA 1" IPS, Chrome Plate Plastic Escutcheon	11.92	4.21
22 11 19 00-0484 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	13.14	4.63
22 11 19 00-0485 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	13.92	4.91
22 11 19 00-0486 EA 2" IPS, Chrome Plate Plastic Escutcheon	17.11	5.61
22 11 19 00-0487 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	23.18	6.03
22 11 19 00-0488 EA 3" IPS, Chrome Plate Plastic Escutcheon	24.12	6.31
22 11 19 00-0489 EA 4" IPS, Chrome Plate Plastic Escutcheon	25.95	7.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST				
22 11 19 00-0490			Stainless Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0491			Shallow Stainless Steel Escutcheons (22 11 19 00-0490)						
		EA	3/8" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	1/2" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	3/4" IPS, Shallow Stainless Steel Escutcheon.....	23.98	3.94				
22 11 19 00-0495			Chrome Plated Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0496			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.79	3.50				
		EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.48	3.92				
		EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.32	4.21				
		EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.02	4.63				
		EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.73	4.91				
		EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.36	5.61				
		EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	18.20	6.03				
		EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.33	6.31				
		EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	23.60	6.73				
		EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	21.09	7.02				
		EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	26.97	7.71				
		EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	31.36	8.41				
22 11 19 00-0509			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.94	3.92				
		EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.68	4.21				
		EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	15.46	4.63				
		EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.39	4.91				
		EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	19.39	5.61				
		EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	22.22	6.03				
		EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	26.99	6.31				
		EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	32.96	6.73				
		EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	33.50	7.02				
		EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	54.66	7.71				
		EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	57.13	8.41				
22 11 19 00-0523			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.47	3.94				
		EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.34	3.94				
		EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.08	3.94				
		EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.05	4.22				
		EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.91	4.65				
		EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.99	4.93				
22 11 19 00-0530			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.70	3.52				
		EA	1" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.30	4.22				
		EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.06	4.65				
		EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.13	4.93				
		EA	2" IPS, Shallow Chrome Plated Steel Escutcheon.....	12.62	5.63				
22 11 19 00-0538			Keyed, Recessed Valve Boxes (22 11 19)						
		EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	241.55	42.07				
		EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	264.04	42.07				
		EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	297.77	42.07				
		EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	303.33	56.09				
		EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	337.07	56.09				
		EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	347.19	56.09				
		EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	277.53	42.07				
		EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	327.01	42.07				
		EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	370.87	42.07				
		EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	366.31	56.09				
		EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	410.16	56.09				
		EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	427.03	56.09				
22 11 23			Domestic Water Pumps (22 11)						
22 11 23 13			Domestic Water Packaged Booster Pumps (22 11 23)						
			Note: Includes motor starter and controls.						



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0001	Simplex Domestic Water Packaged Booster Pumps And Tank ^(22 11 23 13)	
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,035.58	414.96
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,544.84	557.61
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,130.41	700.24
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,677.82	842.89
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank	14,064.77	985.53
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	15,642.54	1,128.18
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank	16,762.36	1,270.82
22 11 23 13-0009	Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	30,031.82	1,678.34
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	36,035.38	1,783.25
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	42,063.27	1,888.15
22 11 23 13-0013	Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	39,288.61	1,783.25
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	48,725.71	1,888.15
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	60,419.91	2,097.94
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	76,343.80	2,307.73
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	92,267.67	2,517.52
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	107,432.03	2,832.21
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	122,596.40	3,146.91
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	137,760.75	3,461.59
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	153,187.36	3,881.18
22 11 23 13-0023	Variable Speed Duplex Domestic Water Pressure Booster Skid ^(22 11 23 13)	
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1)	34,730.92	1,746.31
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2)	36,289.72	1,746.31
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3)	38,517.04	1,746.31
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4)	41,727.72	1,746.31
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5)	39,471.98	1,855.46
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6)	42,274.76	1,855.46
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7)	46,081.20	1,855.46
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8)	49,175.08	1,855.46
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9)	43,104.45	1,964.60
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10)	45,871.68	1,964.60
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11)	52,059.46	1,964.60
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12)	62,444.64	1,964.60
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13)	45,482.41	1,964.60
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14)	51,126.89	1,964.60
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15)	63,551.54	1,964.60
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16)	63,192.73	1,964.60
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17)	75,305.00	2,182.89
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18)	52,033.13	2,182.89
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19)	63,347.49	2,182.89
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20)	62,990.37	2,182.89
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21)	75,860.14	2,182.89
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22)	91,602.08	2,182.89
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1)	43,721.48	1,746.31



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 13-0047

Variable Speed Triplex Domestic Water Pressure Booster Skid (22 11 23 13)

Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.

22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	43,721.48	1,746.31
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	48,829.45	1,746.31
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	53,236.72	1,746.31
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	49,102.31	1,855.46
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	53,479.11	1,855.46
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	50,124.58	1,855.46
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	53,887.00	1,855.46
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	59,060.98	1,855.46
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	63,349.77	1,855.46
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	50,644.53	1,964.60
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	54,406.96	1,964.60
22 11 23 13-0059	EA	300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	59,579.24	1,964.60
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	63,868.03	1,964.60
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	54,875.78	1,964.60
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	58,489.27	1,964.60
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	67,417.21	1,964.60
22 11 23 13-0064	EA	360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	81,986.25	1,964.60
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	56,159.44	2,182.89
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	59,774.62	2,182.89
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	68,702.56	2,182.89
22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	83,269.91	2,182.89
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	59,189.02	2,182.89
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	67,302.86	2,182.89
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	84,928.56	2,182.89
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	86,636.29	2,182.89
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....	107,096.92	2,182.89
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....	67,143.55	2,619.47
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29).....	80,516.00	2,619.47
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....	85,586.73	2,619.47
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....	102,980.55	2,619.47
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....	127,320.39	2,619.47

22 11 23 23

Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001

Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	1,145.29	233.41
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,173.69	233.41
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	1,226.36	237.95
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	1,346.80	247.68
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,353.74	256.87
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,505.27	256.87
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	3,711.79	282.82
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	3,875.72	310.71
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	4,681.31	341.85
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	4,793.27	376.23
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,242.49	413.20

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	7,468.56	454.72
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	8,588.41	476.77

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,189.76	233.41
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	1,939.61	233.41
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,948.98	237.95
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,983.05	243.14
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,992.11	247.68
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,031.08	256.87
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	2,472.71	282.82
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,183.03	341.85
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,358.51	376.23
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	3,911.64	413.20
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,246.31	454.72
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,116.43	476.77
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,514.09	500.77
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,931.49	550.46
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,516.57	583.80
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,218.47	648.66
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,746.21	778.53
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	11,129.70	908.52

22 12 Facility Potable-Water Storage Tanks (22 10)

22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)

22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)

22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	35,844.69	8,902.97
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	40,439.47	8,902.97
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	72,405.00	13,739.18
22 12 19 00-0005	EA		35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	93,472.03	17,805.94

22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)

22 12 19 00-0007	EA		5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	42,651.76	8,902.97
22 12 19 00-0008	EA		10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	58,648.39	8,902.97
22 12 19 00-0009	EA		20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	87,553.88	13,739.18
22 12 19 00-0010	EA		35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	125,388.94	17,805.94

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)

22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)

22 12 23 13-0002	EA		80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,428.80	518.70
22 12 23 13-0003	EA		119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,012.47	648.37
22 12 23 13-0004	EA		140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	5,264.59	713.21
22 12 23 13-0005	EA		200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	5,815.53	778.05
22 12 23 13-0006	EA		250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	11,122.53	842.89
22 12 23 13-0007	EA		350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	9,694.83	907.72
22 12 23 13-0008	EA		400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	16,284.12	972.56
22 12 23 13-0009	EA		500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	15,092.64	1,037.40
22 12 23 13-0010	EA		750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	16,380.77	1,102.24
22 12 23 13-0011	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	19,428.11	1,167.07

22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)

22 12 23 13-0013	EA		80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,124.21	518.70
22 12 23 13-0014	EA		120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,870.36	648.37
22 12 23 13-0015	EA		140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	4,780.17	713.21
22 12 23 13-0016	EA		200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	5,845.51	778.05
22 12 23 13-0017	EA		200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	5,036.18	778.05
22 12 23 13-0018	EA		250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	7,568.41	842.89
22 12 23 13-0019	EA		325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	8,188.31	907.72
22 12 23 13-0020	EA		350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	7,820.64	907.72
22 12 23 13-0021	EA		350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	7,184.64	907.72
22 12 23 13-0022	EA		400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	9,666.10	972.56
22 12 23 13-0023	EA		500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	10,475.12	1,037.40
22 12 23 13-0024	EA		750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	12,099.12	1,102.24



Plumbing	22
Plumbing Piping	22 10
Facility Potable-Water Storage Tanks	22 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 12 23 13-0025	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	22,151.40	1,167.07
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22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)

22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)

Note: Excludes excavation and backfill.

22 12 23 26-0002	EA	100 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	713.02 782.41	291.77
22 12 23 26-0003	EA	150 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	834.71 782.41	340.40
22 12 23 26-0004	EA	200 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	984.82 879.05	389.02
22 12 23 26-0005	EA	300 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	1,186.09 1,256.13	437.65
22 12 23 26-0006	EA	335 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Two Tie Down Bands, Add</i>	1,408.19 459.69	486.29
22 12 23 26-0007	EA	535 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Two Tie Down Bands, Add</i>	1,743.93 486.22	596.09
22 12 23 26-0008	EA	1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Three Tie Down Bands, Add</i>	2,553.38 814.59	695.44
22 12 23 26-0009	EA	1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Three Tie Down Bands, Add</i>	3,627.24 820.27	794.79
22 12 23 26-0010	EA	1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	4,500.60 1,108.86	894.14
22 12 23 26-0011	EA	2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	5,257.33 1,495.41	993.48
22 12 23 26-0012	EA	2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	7,425.90 1,919.86	1,092.84
22 12 23 26-0013	EA	3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	8,581.60 2,063.87	1,192.19
22 12 23 26-0014	EA	4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	12,293.10 2,313.99	1,589.59
22 12 23 26-0015	EA	5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Five Tie Down Bands, Add</i>	15,775.68 3,584.11	1,589.59

22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)

22 12 23 26-0017	EA	100 Gallon Vertical Non-Pressurized Polyethylene Tank	804.80	389.02
22 12 23 26-0018	EA	160 Gallon Vertical Non-Pressurized Polyethylene Tank	949.02	413.34
22 12 23 26-0019	EA	210 Gallon Vertical Non-Pressurized Polyethylene Tank	1,036.39	437.65
22 12 23 26-0020	EA	300 Gallon Vertical Non-Pressurized Polyethylene Tank	1,239.55	486.29
22 12 23 26-0021	EA	405 Gallon Vertical Non-Pressurized Polyethylene Tank	1,424.18	583.54
22 12 23 26-0022	EA	500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,678.91	680.80
22 12 23 26-0023	EA	800 Gallon Vertical Non-Pressurized Polyethylene Tank	2,204.20	794.79
22 12 23 26-0024	EA	1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,844.31	993.48
22 12 23 26-0025	EA	2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,783.82	1,192.19
22 12 23 26-0026	EA	3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,901.44	1,390.89
22 12 23 26-0027	EA	4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	7,085.85	1,589.59
22 12 23 26-0028	EA	5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	9,493.87	1,788.28
22 12 23 26-0029	EA	6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	10,751.71	1,986.98
22 12 23 26-0030	EA	7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	11,846.59	2,185.68
22 12 23 26-0031	EA	8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	13,612.25	2,384.37
22 12 23 26-0032	EA	9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	15,345.69	2,583.07
22 12 23 26-0033	EA	10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	18,879.26	2,781.77
22 12 23 26-0034	EA	12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	22,668.28	3,179.17

22 13 Facility Sanitary Sewerage (22 10)

22 13 13 Facility Sanitary Sewers (22 13)

22 13 13 00-0001 Fixture Rough-In (22 13 13)

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.

22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003	EA	Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,150.05	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.				
22 13 13 00-0004	EA	Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,480.74	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.				
22 13 13 00-0005	EA	Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,054.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....674.84 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	674.84	
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....794.65 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	794.65	
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,024.49 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,024.49	
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....1,081.09 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,081.09	
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....654.93 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	654.93	
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,054.67 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,054.67	
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,091.51 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,091.51	
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....1,026.65 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	1,026.65	
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....1,150.05 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,150.05	
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,797.66 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,797.66	
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,113.55 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	1,113.55	
22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....1,479.27 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	1,479.27	
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,984.68 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	1,984.68	
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,278.90 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,278.90	
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....797.52 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	797.52	
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,086.90 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,086.90	
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,148.65 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,148.65	
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....757.68 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	757.68	
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....1,291.85 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	1,291.85	
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,144.96 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	1,144.96	
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,112.58 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	1,112.58	
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,479.27 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.	1,479.27	
22 13 13 00-0029 Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....739.03 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	739.03	
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....992.34 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	992.34	
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....640.09 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.	640.09	
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....399.41 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	399.41	
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....543.48 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	543.48	
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....574.30 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	574.30	
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....411.26 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	411.26	
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet .....645.28 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	645.28	
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....572.47 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	572.47	
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....556.90 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	556.90	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 13 00-0040	EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	729.93	
	22 13 13 00-0041	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0001) Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13 13 00-0042	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	626.75	
	22 13 13 00-0043	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	627.97	
	22 13 13 00-0044	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	606.35	
	22 13 13 00-0045	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	353.79	
	22 13 13 00-0046	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	413.58	
	22 13 13 00-0047	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	578.46	
	22 13 13 00-0048	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	573.29	
	22 13 13 00-0049	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	353.88	
	22 13 13 00-0050	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	606.35	
	22 13 13 00-0051	EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	652.88	
	22 13 13 00-0052	EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	596.02	
	22 13 13 00-0053	EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	626.60	
	22 13 13 00-0054	EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	961.48	
	22 13 13 00-0055	EA Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	601.65	
	22 13 13 00-0056	Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 00-0001) Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13 13 00-0057	EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	739.42	
	22 13 13 00-0058	EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	816.72	
	22 13 13 00-0059	EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	645.16	
	22 13 13 00-0060	EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	379.83	
	22 13 13 00-0061	EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	582.98	
	22 13 13 00-0062	EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	604.81	
	22 13 13 00-0063	EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	375.69	
	22 13 13 00-0064	EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	656.69	
	22 13 13 00-0065	EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	664.23	
	22 13 13 00-0066	EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	635.29	
	22 13 13 00-0067	EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	739.42	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 13 00-0068		Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	369.18	
22 13 13 00-0070	EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	407.73	
22 13 13 00-0071	EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	322.96	
22 13 13 00-0072	EA	Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	189.98	
22 13 13 00-0073	EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	291.46	
22 13 13 00-0074	EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	302.09	
22 13 13 00-0075	EA	Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	187.83	
22 13 13 00-0076	EA	Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	328.23	
22 13 13 00-0077	EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	332.16	
22 13 13 00-0078	EA	Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	318.21	
22 13 13 00-0079	EA	Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	360.58	
22 13 16		Sanitary Waste and Vent Piping <small>(22 13)</small>		
22 13 16 00-0001		Cast Iron Soil Pipe Assemblies <small>(22 13 16)</small>		
22 13 16 00-0002		Underground Bell And Spigot Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003	LF	2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	37.76	8.17
		<i>For Work In Restricted Working Space, Add</i>	5.99	
22 13 16 00-0004	LF	3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	53.72	12.31
		<i>For Work In Restricted Working Space, Add</i>	8.13	
22 13 16 00-0005	LF	4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	69.65	15.69
		<i>For Work In Restricted Working Space, Add</i>	10.46	
22 13 16 00-0006	LF	5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	78.59	17.98
		<i>For Work In Restricted Working Space, Add</i>	10.12	
22 13 16 00-0007	LF	6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	92.09	19.59
		<i>For Work In Restricted Working Space, Add</i>	11.24	
22 13 16 00-0008	LF	8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	145.97	28.15
		<i>For Work In Restricted Working Space, Add</i>	15.94	
22 13 16 00-0009	LF	10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	212.42	28.15
		<i>For Work In Restricted Working Space, Add</i>	18.05	
22 13 16 00-0010		Aboveground No Hub Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF	1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	34.40	7.78
		<i>For Work In Restricted Working Space, Add</i>	6.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	36.53 7.34	8.30
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	46.44 9.00	12.06
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	55.53 10.77	15.69
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	69.47 11.97	17.64
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	78.32 13.04	19.25
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	122.08 18.17	27.92
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	169.44 21.12	31.72
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.59 5.98 0.62 3.71	8.17
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.92 8.57 0.93 5.56	12.31
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.11 11.14 1.18 7.07	15.69
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.34 15.72 1.35 8.07	17.98
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.94 19.15 1.47 8.80	19.59
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.15 29.79 2.11 12.67	28.15
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.59 49.59 2.38 14.26	31.72
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.87 72.04 3.17 19.01	42.29
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.70 105.28 3.80 22.81	50.72
22 13 16 00-0030			Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031			Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.04 22.49 2.79 16.73	37.21
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	200.49 45.64 3.50 21.03	46.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep.....	267.09	62.24
For Extra Heavy Fittings, Add	60.83	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep.....	406.67	76.08
For Extra Heavy Fittings, Add	102.42	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep.....	801.16	99.07
For Extra Heavy Fittings, Add	228.43	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep.....	1,094.37	121.88
For Extra Heavy Fittings, Add	319.06	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep.....	1,676.34	170.11
For Extra Heavy Fittings, Add	497.45	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep.....	3,104.02	236.87
For Extra Heavy Fittings, Add	962.11	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep.....	103.07	37.21
For Extra Heavy Fittings, Add	16.56	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep.....	172.01	46.81
For Extra Heavy Fittings, Add	35.67	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep.....	235.07	62.24
For Extra Heavy Fittings, Add	49.62	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep.....	342.08	64.67
For Extra Heavy Fittings, Add	85.81	
For Above Ground Cast Iron Pipe Installation, Add	4.85	
For Work In Restricted Working Space, Add	29.08	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep.....	412.78	76.08
For Extra Heavy Fittings, Add	104.56	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep.....	678.44	99.07
For Extra Heavy Fittings, Add	185.48	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep.....	989.65	121.88
For Extra Heavy Fittings, Add	282.41	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep.....	1,637.29	170.11
For Extra Heavy Fittings, Add	483.78	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend.....	93.43	37.08
For Extra Heavy Fittings, Add	13.22	
For Above Ground Cast Iron Pipe Installation, Add	2.78	
For Work In Restricted Working Space, Add	16.70	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend.....	138.13	41.75
For Extra Heavy Fittings, Add	26.42	
For Above Ground Cast Iron Pipe Installation, Add	3.13	
For Work In Restricted Working Space, Add	18.80	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend.....	196.69	55.63
For Extra Heavy Fittings, Add	39.66	
For Above Ground Cast Iron Pipe Installation, Add	4.17	
For Work In Restricted Working Space, Add	25.01	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend.....	238.72	57.75
For Extra Heavy Fittings, Add	53.27	
For Above Ground Cast Iron Pipe Installation, Add	4.33	
For Work In Restricted Working Space, Add	25.96	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend.....	287.11	69.16
For Extra Heavy Fittings, Add	64.17	
For Above Ground Cast Iron Pipe Installation, Add	5.19	
For Work In Restricted Working Space, Add	31.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0055	EA			8" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	591.67 159.23 6.84 41.02	91.23
22 13 16 00-0056	EA			10" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	869.84 246.35 8.30 49.79	110.71
22 13 16 00-0057	EA			12" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,145.04 332.18 9.80 58.79	130.67
22 13 16 00-0058	EA			15" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,911.29 910.82 15.45 92.69	206.11
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)						
22 13 16 00-0060	EA			2" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.93 10.56 2.79 16.73	37.21
22 13 16 00-0061	EA			3" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.32 21.78 3.50 21.03	46.81
22 13 16 00-0062	EA			4" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.72 33.05 4.66 27.99	62.24
22 13 16 00-0063	EA			5" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.38 41.67 5.42 32.50	72.28
22 13 16 00-0064	EA			6" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.65 49.62 6.04 36.26	80.58
22 13 16 00-0065	EA			8" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	518.61 124.16 8.19 49.16	109.29
22 13 16 00-0066	EA			10" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	723.26 182.37 10.11 60.66	134.83
22 13 16 00-0067	EA			12" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,163.70 315.56 13.10 78.63	174.86
22 13 16 00-0068	EA			15" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,215.21 667.19 15.45 92.69	206.11
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)						
22 13 16 00-0070	EA			2" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.70 10.15 6.23 37.41	83.12
22 13 16 00-0071	EA			3" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.85 19.02 6.83 40.95	91.03
22 13 16 00-0072	EA			4" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.14 25.31 8.94 53.65	119.30
22 13 16 00-0073	EA			5" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.05 42.18 9.33 55.96	124.39
22 13 16 00-0074	EA			6" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	384.36 57.15 11.05 66.32	147.44
22 13 16 00-0075	EA			8" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	699.61 140.13 14.96 89.77	199.57

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	974.90	226.41
For Extra Heavy Fittings, Add	222.43	
For Above Ground Cast Iron Pipe Installation, Add	16.97	
For Work In Restricted Working Space, Add	101.82	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,435.56	275.60
For Extra Heavy Fittings, Add	357.83	
For Above Ground Cast Iron Pipe Installation, Add	20.66	
For Work In Restricted Working Space, Add	123.96	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,214.21	309.22
For Extra Heavy Fittings, Add	612.72	
For Above Ground Cast Iron Pipe Installation, Add	23.18	
For Work In Restricted Working Space, Add	139.07	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	234.65	86.88
For Extra Heavy Fittings, Add	36.52	
For Above Ground Cast Iron Pipe Installation, Add	6.52	
For Work In Restricted Working Space, Add	39.09	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	285.91	107.37
For Extra Heavy Fittings, Add	43.70	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.32	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye	317.15	110.09
For Extra Heavy Fittings, Add	53.20	
For Above Ground Cast Iron Pipe Installation, Add	8.26	
For Work In Restricted Working Space, Add	49.55	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye	451.30	132.11
For Extra Heavy Fittings, Add	88.67	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.39	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye	462.91	134.53
For Extra Heavy Fittings, Add	91.41	
For Above Ground Cast Iron Pipe Installation, Add	10.09	
For Work In Restricted Working Space, Add	60.52	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye	484.81	143.53
For Extra Heavy Fittings, Add	94.37	
For Above Ground Cast Iron Pipe Installation, Add	10.76	
For Work In Restricted Working Space, Add	64.56	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye	710.47	160.49
For Extra Heavy Fittings, Add	164.45	
For Above Ground Cast Iron Pipe Installation, Add	12.03	
For Work In Restricted Working Space, Add	72.18	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye	742.20	163.57
For Extra Heavy Fittings, Add	173.95	
For Above Ground Cast Iron Pipe Installation, Add	12.26	
For Work In Restricted Working Space, Add	73.56	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye	760.49	171.30
For Extra Heavy Fittings, Add	176.27	
For Above Ground Cast Iron Pipe Installation, Add	12.84	
For Work In Restricted Working Space, Add	77.06	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye	897.34	190.55
For Extra Heavy Fittings, Add	214.06	
For Above Ground Cast Iron Pipe Installation, Add	14.29	
For Work In Restricted Working Space, Add	85.72	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,100.67	178.54
For Extra Heavy Fittings, Add	291.54	
For Above Ground Cast Iron Pipe Installation, Add	13.39	
For Work In Restricted Working Space, Add	80.31	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,145.05	186.39
For Extra Heavy Fittings, Add	302.94	
For Above Ground Cast Iron Pipe Installation, Add	13.98	
For Work In Restricted Working Space, Add	83.85	
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,252.91	206.11
For Extra Heavy Fittings, Add	330.38	
For Above Ground Cast Iron Pipe Installation, Add	15.45	
For Work In Restricted Working Space, Add	92.69	
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,651.05	218.58
For Extra Heavy Fittings, Add	463.17	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,698.70	218.58
For Extra Heavy Fittings, Add	479.85	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,768.97	236.87
For Extra Heavy Fittings, Add	494.84	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,074.22	248.63
For Extra Heavy Fittings, Add	595.54	
For Above Ground Cast Iron Pipe Installation, Add	18.63	
For Work In Restricted Working Space, Add	111.80	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0097	EA			12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,516.62 746.48 19.19 115.15	256.00
22 13 16 00-0098	EA			15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,142.55 1,323.23 18.10 108.57	241.38
22 13 16 00-0099	EA			15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,324.38 1,376.43 19.59 117.52	261.22
22 13 16 00-0100	EA			15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,413.60 1,401.76 20.43 122.57	272.51
22 13 16 00-0101	EA			15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,516.67 1,433.01 21.12 126.71	281.77
22 13 16 00-0102	EA			15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,631.78 1,464.67 22.35 134.10	298.17
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>						
22 13 16 00-0104	EA			2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.13 14.50 6.23 37.41	83.12
22 13 16 00-0105	EA			3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.51 21.70 8.83 40.95	91.03
22 13 16 00-0106	EA			4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.47 29.98 8.94 53.65	119.30
22 13 16 00-0107	EA			5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	350.77 54.32 9.78 58.67	130.49
22 13 16 00-0108	EA			6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	439.13 68.78 12.13 72.79	161.85
22 13 16 00-0109	EA			8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	800.52 167.43 16.11 96.65	214.89
22 13 16 00-0110	EA			10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,152.21 255.44 21.12 126.71	281.77
22 13 16 00-0111	EA			12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,543.20 350.05 27.15 162.92	362.20
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>						
22 13 16 00-0113	EA			3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.80 16.28 6.52 39.09	86.88
22 13 16 00-0114	EA			4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.47 29.90 8.05 48.32	107.37
22 13 16 00-0115	EA			4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	265.10 34.98 8.26 49.55	110.09
22 13 16 00-0116	EA			6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	376.65 62.54 9.90 59.39	132.11
22 13 16 00-0117	EA			6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	392.05 66.61 10.09 60.52	134.53

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0118	EA		6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	415.66	143.53
			<i>For Extra Heavy Fittings, Add</i>	70.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0119	EA		8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	571.82	160.49
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.03	
			<i>For Work In Restricted Working Space, Add</i>	72.18	
22 13 16 00-0120	EA		8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	588.07	171.30
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0121	EA		8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	740.43	190.55
			<i>For Extra Heavy Fittings, Add</i>	159.15	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0122			Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye	263.66	99.46
			<i>For Extra Heavy Fittings, Add</i>	40.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.45	
			<i>For Work In Restricted Working Space, Add</i>	44.72	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye	380.34	125.39
			<i>For Extra Heavy Fittings, Add</i>	67.34	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.40	
			<i>For Work In Restricted Working Space, Add</i>	56.38	
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye	514.10	158.59
			<i>For Extra Heavy Fittings, Add</i>	96.69	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.89	
			<i>For Work In Restricted Working Space, Add</i>	71.36	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye	952.45	226.52
			<i>For Extra Heavy Fittings, Add</i>	214.49	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	101.89	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye	1,896.04	269.77
			<i>For Extra Heavy Fittings, Add</i>	522.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.22	
			<i>For Work In Restricted Working Space, Add</i>	121.32	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye	2,507.54	301.85
			<i>For Extra Heavy Fittings, Add</i>	719.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	22.63	
			<i>For Work In Restricted Working Space, Add</i>	135.77	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye	1,752.82	362.20
			<i>For Extra Heavy Fittings, Add</i>	423.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	27.15	
			<i>For Work In Restricted Working Space, Add</i>	162.92	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye	4,883.39	380.14
			<i>For Extra Heavy Fittings, Add</i>	1,509.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	28.51	
			<i>For Work In Restricted Working Space, Add</i>	171.07	
22 13 16 00-0131			Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	244.00	117.62
			<i>For Extra Heavy Fittings, Add</i>	23.67	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.82	
			<i>For Work In Restricted Working Space, Add</i>	52.91	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	283.26	135.12
			<i>For Extra Heavy Fittings, Add</i>	28.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.13	
			<i>For Work In Restricted Working Space, Add</i>	60.79	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	306.01	141.73
			<i>For Extra Heavy Fittings, Add</i>	32.70	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.63	
			<i>For Work In Restricted Working Space, Add</i>	63.77	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	374.99	157.13
			<i>For Extra Heavy Fittings, Add</i>	48.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.78	
			<i>For Work In Restricted Working Space, Add</i>	70.66	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	397.25	163.12
			<i>For Extra Heavy Fittings, Add</i>	53.45	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	73.36	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	456.31	177.88
			<i>For Extra Heavy Fittings, Add</i>	66.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.33	
			<i>For Work In Restricted Working Space, Add</i>	80.00	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	732.65	207.89
			<i>For Extra Heavy Fittings, Add</i>	147.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	93.47	



Plumbing	22
Plumbing Piping	22 10
Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	799.82	246.01
For Extra Heavy Fittings, Add	150.82	
For Above Ground Cast Iron Pipe Installation, Add	18.45	
For Work In Restricted Working Space, Add	110.68	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	780.58	222.37
For Extra Heavy Fittings, Add	156.50	
For Above Ground Cast Iron Pipe Installation, Add	16.67	
For Work In Restricted Working Space, Add	100.04	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	909.91	261.22
For Extra Heavy Fittings, Add	181.36	
For Above Ground Cast Iron Pipe Installation, Add	19.59	
For Work In Restricted Working Space, Add	117.52	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	1,117.85	284.74
For Extra Heavy Fittings, Add	241.83	
For Above Ground Cast Iron Pipe Installation, Add	21.35	
For Work In Restricted Working Space, Add	128.08	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	1,141.83	291.28
For Extra Heavy Fittings, Add	246.79	
For Above Ground Cast Iron Pipe Installation, Add	21.84	
For Work In Restricted Working Space, Add	131.02	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	1,454.53	316.93
For Extra Heavy Fittings, Add	342.78	
For Above Ground Cast Iron Pipe Installation, Add	23.76	
For Work In Restricted Working Space, Add	142.55	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	222.59	99.46
For Extra Heavy Fittings, Add	25.74	
For Above Ground Cast Iron Pipe Installation, Add	7.45	
For Work In Restricted Working Space, Add	44.72	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	299.63	133.05
For Extra Heavy Fittings, Add	35.05	
For Above Ground Cast Iron Pipe Installation, Add	9.98	
For Work In Restricted Working Space, Add	59.85	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	390.27	166.37
For Extra Heavy Fittings, Add	49.32	
For Above Ground Cast Iron Pipe Installation, Add	12.47	
For Work In Restricted Working Space, Add	74.81	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	816.38	253.16
For Extra Heavy Fittings, Add	152.88	
For Above Ground Cast Iron Pipe Installation, Add	18.98	
For Work In Restricted Working Space, Add	113.87	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	295.04	119.30
For Extra Heavy Fittings, Add	40.68	
For Above Ground Cast Iron Pipe Installation, Add	8.94	
For Work In Restricted Working Space, Add	53.65	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	349.05	135.12
For Extra Heavy Fittings, Add	51.25	
For Above Ground Cast Iron Pipe Installation, Add	10.13	
For Work In Restricted Working Space, Add	60.79	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	391.64	150.43
For Extra Heavy Fittings, Add	58.17	
For Above Ground Cast Iron Pipe Installation, Add	11.27	
For Work In Restricted Working Space, Add	67.64	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	749.46	188.83
For Extra Heavy Fittings, Add	163.21	
For Above Ground Cast Iron Pipe Installation, Add	14.16	
For Work In Restricted Working Space, Add	84.94	
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee	182.10	83.25
For Extra Heavy Fittings, Add	20.06	
For Above Ground Cast Iron Pipe Installation, Add	6.24	
For Work In Restricted Working Space, Add	37.44	
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee	206.47	91.03
For Extra Heavy Fittings, Add	24.49	
For Above Ground Cast Iron Pipe Installation, Add	6.83	
For Work In Restricted Working Space, Add	40.95	
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee	326.52	111.52
For Extra Heavy Fittings, Add	55.73	
For Above Ground Cast Iron Pipe Installation, Add	8.36	
For Work In Restricted Working Space, Add	50.18	
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee	456.07	115.05
For Extra Heavy Fittings, Add	99.22	
For Above Ground Cast Iron Pipe Installation, Add	8.63	
For Work In Restricted Working Space, Add	51.77	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0160	EA		6" Bell And Spigot Cast Iron Sanitary Tee	547.10	137.99
			<i>For Extra Heavy Fittings, Add</i>	119.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	62.07	
22 13 16 00-0161	EA		8" Bell And Spigot Cast Iron Sanitary Tee	1,169.10	182.35
			<i>For Extra Heavy Fittings, Add</i>	313.50	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.67	
			<i>For Work In Restricted Working Space, Add</i>	82.02	
22 13 16 00-0162	EA		10" Bell And Spigot Cast Iron Sanitary Tee	1,752.10	222.37
			<i>For Extra Heavy Fittings, Add</i>	496.53	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.67	
			<i>For Work In Restricted Working Space, Add</i>	100.04	
22 13 16 00-0163	EA		12" Bell And Spigot Cast Iron Sanitary Tee	2,607.77	261.22
			<i>For Extra Heavy Fittings, Add</i>	775.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.59	
			<i>For Work In Restricted Working Space, Add</i>	117.52	
22 13 16 00-0164			Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165	EA		3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	240.08	86.88
			<i>For Extra Heavy Fittings, Add</i>	38.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.52	
			<i>For Work In Restricted Working Space, Add</i>	39.09	
22 13 16 00-0166	EA		4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	284.05	101.79
			<i>For Extra Heavy Fittings, Add</i>	46.02	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0167	EA		4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	296.72	101.79
			<i>For Extra Heavy Fittings, Add</i>	50.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0168	EA		6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	434.41	132.11
			<i>For Extra Heavy Fittings, Add</i>	82.75	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
			<i>For Work In Restricted Working Space, Add</i>	59.39	
22 13 16 00-0169	EA		6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	452.05	134.53
			<i>For Extra Heavy Fittings, Add</i>	87.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.09	
			<i>For Work In Restricted Working Space, Add</i>	60.52	
22 13 16 00-0170	EA		6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	490.23	143.53
			<i>For Extra Heavy Fittings, Add</i>	96.26	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0171	EA		8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	832.27	171.30
			<i>For Extra Heavy Fittings, Add</i>	201.40	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0172	EA		8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee	1,042.70	190.55
			<i>For Extra Heavy Fittings, Add</i>	264.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0173			Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174	EA		2" Bell And Spigot Cast Iron Vent Tee	158.17	83.12
			<i>For Extra Heavy Fittings, Add</i>	11.72	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0175	EA		3" Bell And Spigot Cast Iron Vent Tee	194.77	91.03
			<i>For Extra Heavy Fittings, Add</i>	20.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0176	EA		4" Bell And Spigot Cast Iron Vent Tee	257.77	119.30
			<i>For Extra Heavy Fittings, Add</i>	27.63	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee	313.38	130.49
			<i>For Extra Heavy Fittings, Add</i>	41.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.78	
			<i>For Work In Restricted Working Space, Add</i>	58.67	
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee	394.38	161.85
			<i>For Extra Heavy Fittings, Add</i>	53.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.13	
			<i>For Work In Restricted Working Space, Add</i>	72.79	
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee	675.30	214.89
			<i>For Extra Heavy Fittings, Add</i>	123.60	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.11	
			<i>For Work In Restricted Working Space, Add</i>	96.65	
22 13 16 00-0180			Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee	162.09	83.12
			<i>For Extra Heavy Fittings, Add</i>	13.09	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee	178.78	91.03
<i>For Extra Heavy Fittings, Add</i>	14.80	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee	230.93	119.30
<i>For Extra Heavy Fittings, Add</i>	18.24	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross	164.56	83.12
<i>For Extra Heavy Fittings, Add</i>	13.95	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross	183.49	91.03
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross	242.76	119.30
<i>For Extra Heavy Fittings, Add</i>	22.38	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	91.26	46.81
<i>For Extra Heavy Fittings, Add</i>	7.41	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.50	
<i>For Work In Restricted Working Space, Add</i>	21.03	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	114.77	61.72
<i>For Extra Heavy Fittings, Add</i>	7.75	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.63	
<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	122.06	62.24
<i>For Extra Heavy Fittings, Add</i>	10.07	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	27.99	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	146.60	69.86
<i>For Extra Heavy Fittings, Add</i>	14.63	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.24	
<i>For Work In Restricted Working Space, Add</i>	31.44	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	153.16	70.79
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.31	
<i>For Work In Restricted Working Space, Add</i>	31.85	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	158.02	72.28
<i>For Extra Heavy Fittings, Add</i>	17.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.42	
<i>For Work In Restricted Working Space, Add</i>	32.50	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	203.41	74.47
<i>For Extra Heavy Fittings, Add</i>	32.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.58	
<i>For Work In Restricted Working Space, Add</i>	33.50	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	231.44	92.54
<i>For Extra Heavy Fittings, Add</i>	32.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.94	
<i>For Work In Restricted Working Space, Add</i>	41.62	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	237.53	94.91
<i>For Extra Heavy Fittings, Add</i>	33.31	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.12	
<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	245.42	99.07
<i>For Extra Heavy Fittings, Add</i>	33.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.42	
<i>For Work In Restricted Working Space, Add</i>	44.55	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	305.46	111.19
<i>For Extra Heavy Fittings, Add</i>	48.56	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.34	
<i>For Work In Restricted Working Space, Add</i>	50.02	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	322.02	116.78
<i>For Extra Heavy Fittings, Add</i>	51.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.76	
<i>For Work In Restricted Working Space, Add</i>	52.55	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	342.90	121.88
<i>For Extra Heavy Fittings, Add</i>	56.05	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.14	
<i>For Work In Restricted Working Space, Add</i>	54.83	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	424.48	132.10
<i>For Extra Heavy Fittings, Add</i>	79.27	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
<i>For Work In Restricted Working Space, Add</i>	59.40	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	474.02	154.55
For Extra Heavy Fittings, Add	84.78	
For Above Ground Cast Iron Pipe Installation, Add	11.59	
For Work In Restricted Working Space, Add	69.54	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	513.39	176.05
For Extra Heavy Fittings, Add	87.29	
For Above Ground Cast Iron Pipe Installation, Add	13.20	
For Work In Restricted Working Space, Add	79.19	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	563.25	202.77
For Extra Heavy Fittings, Add	90.73	
For Above Ground Cast Iron Pipe Installation, Add	15.20	
For Work In Restricted Working Space, Add	91.20	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	730.99	202.77
For Extra Heavy Fittings, Add	149.44	
For Above Ground Cast Iron Pipe Installation, Add	15.20	
For Work In Restricted Working Space, Add	91.20	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	778.02	218.58
For Extra Heavy Fittings, Add	157.61	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer	810.38	230.45
For Extra Heavy Fittings, Add	162.68	
For Above Ground Cast Iron Pipe Installation, Add	17.28	
For Work In Restricted Working Space, Add	103.67	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer	854.17	246.01
For Extra Heavy Fittings, Add	169.84	
For Above Ground Cast Iron Pipe Installation, Add	18.45	
For Work In Restricted Working Space, Add	110.68	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap.....	91.96	37.21
For Extra Heavy Fittings, Add	12.67	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....	122.75	46.81
For Extra Heavy Fittings, Add	18.43	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....	167.06	62.24
For Extra Heavy Fittings, Add	25.82	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....	255.07	64.67
For Extra Heavy Fittings, Add	55.35	
For Above Ground Cast Iron Pipe Installation, Add	4.85	
For Work In Restricted Working Space, Add	29.08	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....	341.80	76.08
For Extra Heavy Fittings, Add	79.72	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....	756.48	99.07
For Extra Heavy Fittings, Add	212.80	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....	839.61	121.88
For Extra Heavy Fittings, Add	229.90	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap	105.71	37.21
For Extra Heavy Fittings, Add	17.48	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap	149.77	46.81
For Extra Heavy Fittings, Add	27.89	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap	217.30	62.24
For Extra Heavy Fittings, Add	43.40	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap	345.91	72.28
For Extra Heavy Fittings, Add	83.16	
For Above Ground Cast Iron Pipe Installation, Add	5.42	
For Work In Restricted Working Space, Add	32.50	
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap	367.32	80.58
For Extra Heavy Fittings, Add	86.26	
For Above Ground Cast Iron Pipe Installation, Add	6.04	
For Work In Restricted Working Space, Add	36.26	
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	244.60 6.83 40.95	89.86
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.97 8.94 53.65	118.13
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.07 9.49 56.93	125.54
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	845.87 10.76 64.56	142.26
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,760.66 12.84 77.06	169.39
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,989.46 14.29 85.72	189.00
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.23 9.40 56.38	124.10
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	427.30 11.89 71.36	156.64
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	943.92 13.33 80.00	175.80
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,095.31 16.12 96.74	212.80
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,975.04 15.58 93.47	205.39
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,265.86 18.45 110.68	243.88
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,340.76 21.35 128.08	281.42
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,003.48 24.65 147.87	325.37
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,668.86 28.52 171.13	376.33
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.81 2.78 16.69	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.63 3.13 18.75	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.91 4.19 25.12	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.41 4.86 29.18	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	440.06 5.88 35.25	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	826.84 7.42 44.54	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.50 0.78 4.65	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.91 0.85 5.07	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.13 1.06 6.34	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.35 1.27 7.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0253	EA		8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.80 1.69 10.14	
22 13 16 00-0254	EA		10", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.43 1.97 11.83	
22 13 16 00-0255	EA		12", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.48 2.32 13.94	
22 13 16 00-0256	EA		15", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.52 2.68 16.06	
22 13 16 00-0257			Joint Material <small>(22 13 16 00-0019)</small> Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258	LB		Lead (1 LB/Diameter Inch) Joint Material.....	5.38	
22 13 16 00-0259	LB		Oakum (1/8 LB/Diameter Inch) Joint Material.....	12.54	
22 13 16 00-0260	EA		2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261	EA		3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262	EA		4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263	EA		6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264	EA		8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265	EA		10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266	EA		12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267	EA		15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268			No Hub Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service Weight. Excludes hangers.		
22 13 16 00-0269			No Hub Cast Iron Pipe <small>(22 13 16 00-0268)</small> Note: Excludes couplings.		
22 13 16 00-0270	LF		1-1/2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 0.58 3.50	7.78
22 13 16 00-0271	LF		2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.60 0.63 3.76	8.30
22 13 16 00-0272	LF		3" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.93 0.91 5.44	12.06
22 13 16 00-0273	LF		4" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.26 1.18 7.07	15.69
22 13 16 00-0274	LF		5" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.11 1.32 7.94	17.64
22 13 16 00-0275	LF		6" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.66 1.44 8.65	19.25
22 13 16 00-0276	LF		8" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.75 2.09 12.53	27.92
22 13 16 00-0277	LF		10" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.52 2.38 14.26	31.72
22 13 16 00-0278			No Hub Cast Iron Fittings <small>(22 13 16 00-0268)</small>		
22 13 16 00-0279			No Hub Cast Iron Long Sweeps <small>(22 13 16 00-0278)</small>		
22 13 16 00-0280	EA		1-1/2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.52 2.76 16.55	36.83
22 13 16 00-0281	EA		2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.98 2.76 16.55	36.83
22 13 16 00-0282	EA		3" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.82 3.16 18.98	42.14
22 13 16 00-0283	EA		4" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.77 4.18 25.10	55.76
22 13 16 00-0284	EA		5" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.88 4.36 26.17	58.21
22 13 16 00-0285	EA		6" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.31 5.21 31.24	69.40
22 13 16 00-0286	EA		8" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.08 6.79 40.73	90.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)					
22 13 16 00-0288	EA		3" x 2" No Hub Cast Iron Reducing Long Sweep.....	106.22	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0289	EA		4" x 3" No Hub Cast Iron Reducing Long Sweep.....	155.75	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)					
22 13 16 00-0291	EA		2" No Hub Cast Iron Short Sweep.....	70.07	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0292	EA		3" No Hub Cast Iron Short Sweep.....	83.73	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0293	EA		4" No Hub Cast Iron Short Sweep.....	117.15	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0294	EA		5" No Hub Cast Iron Short Sweep.....	152.49	58.21
			<i>For Below Ground Installation, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0295	EA		6" No Hub Cast Iron Short Sweep.....	170.84	69.40
			<i>For Below Ground Installation, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0296	EA		8" No Hub Cast Iron Short Sweep.....	315.46	90.52
			<i>For Below Ground Installation, Add</i>	6.79	
			<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0297	EA		10" No Hub Cast Iron Short Sweep.....	506.14	126.75
			<i>For Below Ground Installation, Add</i>	9.50	
			<i>For Work In Restricted Working Space, Add</i>	57.02	
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)					
22 13 16 00-0299	EA		1-1/2" No Hub Cast Iron 1/4 Bend.....	64.48	35.27
			<i>For Below Ground Installation, Add</i>	2.65	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0300	EA		2" No Hub Cast Iron 1/4 Bend.....	67.39	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0301	EA		3" No Hub Cast Iron 1/4 Bend.....	79.37	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0302	EA		4" No Hub Cast Iron 1/4 Bend.....	107.52	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0303	EA		5" No Hub Cast Iron 1/4 Bend.....	140.54	58.21
			<i>For Below Ground Installation, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0304	EA		6" No Hub Cast Iron 1/4 Bend.....	163.19	69.40
			<i>For Below Ground Installation, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0305	EA		8" No Hub Cast Iron 1/4 Bend.....	293.16	90.52
			<i>For Below Ground Installation, Add</i>	6.79	
			<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0307	EA		1-1/2" No Hub Cast Iron 1/8 Bend.....	62.00	35.27
			<i>For Below Ground Installation, Add</i>	2.65	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0308	EA		2" No Hub Cast Iron 1/8 Bend.....	64.45	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0309	EA		3" No Hub Cast Iron 1/8 Bend.....	76.48	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0310	EA		4" No Hub Cast Iron 1/8 Bend.....	101.04	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0311	EA		6" No Hub Cast Iron 1/8 Bend.....	163.17	82.35
			<i>For Below Ground Installation, Add</i>	6.18	
			<i>For Work In Restricted Working Space, Add</i>	37.05	
22 13 16 00-0312	EA		8" No Hub Cast Iron 1/8 Bend.....	267.68	108.15
			<i>For Below Ground Installation, Add</i>	8.11	
			<i>For Work In Restricted Working Space, Add</i>	48.63	
22 13 16 00-0313	EA		10" No Hub Cast Iron 1/8 Bend.....	398.65	133.05
			<i>For Below Ground Installation, Add</i>	9.98	
			<i>For Work In Restricted Working Space, Add</i>	59.85	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.23 4.16 24.94	55.50
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.07 5.64 33.83	75.21
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.79 6.18 37.05	82.35
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.27 8.11 48.63	108.15
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.16 8.49 50.97	113.32
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.50 10.09 60.52	134.53
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	489.48 13.58 81.46	181.16
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	773.60 15.08 90.51	201.23
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.20 5.38 32.29	71.84
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.08 6.18 37.05	82.35
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.99 6.83 40.95	91.03
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.80 7.58 45.50	101.15
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 8.58 51.51	114.47
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.72 8.97 53.80	119.66
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.36 10.48 62.88	139.83
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	338.34 10.68 64.07	142.43
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.76 11.73 70.40	156.57
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	576.45 12.50 75.03	166.79
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	609.16 13.39 80.31	178.54
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	695.87 14.29 85.75	190.66
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.08 4.84 29.03	64.58
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.73 5.64 33.83	75.21
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.76 6.18 37.05	82.35
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.31 8.11 48.63	108.15
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.77 12.47 74.81	166.37
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	637.17 16.00 96.01	213.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	751.01 19.34 116.06	258.05
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.54 5.64 33.83	75.21
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	143.56 6.18 37.05	82.35
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.96 6.83 40.95	91.03
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.62 7.58 45.50	101.15
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.13 8.58 51.51	114.47
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.95 8.97 53.80	119.66
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.44 10.48 62.88	139.83
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	379.63 10.68 64.07	142.43
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	483.14 11.73 70.40	156.57
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.94 7.01 42.06	93.49
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.58 8.53 51.19	113.86
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.91 9.33 55.97	124.49
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.90 12.71 76.25	169.58
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	748.39 17.28 103.67	230.45
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.27 7.77 46.59	103.61
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.20 8.94 53.66	119.30
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.51 9.75 58.50	130.06
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.77 11.21 67.25	149.52
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.28 8.42 50.52	112.30
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.34 9.33 55.97	124.49
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	364.94 12.35 74.10	164.82
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	519.10 19.07 114.42	254.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	191.14	96.61
<i>For Below Ground Installation, Add</i>	7.24	
<i>For Work In Restricted Working Space, Add</i>	43.47	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	221.71	112.30
<i>For Below Ground Installation, Add</i>	8.42	
<i>For Work In Restricted Working Space, Add</i>	50.52	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	261.40	122.67
<i>For Below Ground Installation, Add</i>	9.20	
<i>For Work In Restricted Working Space, Add</i>	55.18	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	96.86	54.34
<i>For Below Ground Installation, Add</i>	4.08	
<i>For Work In Restricted Working Space, Add</i>	24.47	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	129.88	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	143.97	82.35
<i>For Below Ground Installation, Add</i>	6.18	
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	194.12	108.15
<i>For Below Ground Installation, Add</i>	8.11	
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	249.02	113.32
<i>For Below Ground Installation, Add</i>	8.49	
<i>For Work In Restricted Working Space, Add</i>	50.97	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	293.89	134.53
<i>For Below Ground Installation, Add</i>	10.09	
<i>For Work In Restricted Working Space, Add</i>	60.52	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	540.69	181.16
<i>For Below Ground Installation, Add</i>	13.58	
<i>For Work In Restricted Working Space, Add</i>	81.46	
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	109.08	61.34
<i>For Below Ground Installation, Add</i>	4.60	
<i>For Work In Restricted Working Space, Add</i>	27.59	
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	126.62	71.84
<i>For Below Ground Installation, Add</i>	5.38	
<i>For Work In Restricted Working Space, Add</i>	32.29	
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	131.76	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	151.36	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	176.93	101.79
<i>For Below Ground Installation, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	181.69	101.79
<i>For Below Ground Installation, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	217.98	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	224.62	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	225.43	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	234.03	112.17
<i>For Below Ground Installation, Add</i>	8.41	
<i>For Work In Restricted Working Space, Add</i>	50.44	
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee.....	429.56	152.77
<i>For Below Ground Installation, Add</i>	11.45	
<i>For Work In Restricted Working Space, Add</i>	68.70	
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	72.35	36.83
<i>For Below Ground Installation, Add</i>	2.76	
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	83.88	42.14
<i>For Below Ground Installation, Add</i>	3.16	
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	104.74	55.76
<i>For Below Ground Installation, Add</i>	4.18	
<i>For Work In Restricted Working Space, Add</i>	25.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee 69.36		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee 86.06		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee 123.73		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee 201.67		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee 276.53		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee 352.63		164.30
			<i>For Below Ground Installation, Add</i> 12.32		
			<i>For Work In Restricted Working Space, Add</i> 73.91		
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)					
22 13 16 00-0407	EA		2" No Hub Cast Iron Cleanout Plug 61.21		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0408	EA		3" No Hub Cast Iron Cleanout Plug 72.73		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0409	EA		4" No Hub Cast Iron Cleanout Plug 101.64		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0410	EA		6" No Hub Cast Iron Cleanout Plug 157.09		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0411	EA		8" No Hub Cast Iron Cleanout Plug 208.25		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0413	EA		1-1/2" No Hub Cast Iron Sanitary Cross 129.65		72.62
			<i>For Below Ground Installation, Add</i> 5.45		
			<i>For Work In Restricted Working Space, Add</i> 32.69		
22 13 16 00-0414	EA		2" No Hub Cast Iron Sanitary Cross 138.60		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0415	EA		3" No Hub Cast Iron Sanitary Cross 164.18		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0416	EA		4" No Hub Cast Iron Sanitary Cross 238.55		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0418	EA		3" x 2" No Hub Cast Iron Sanitary Cross 181.43		96.61
			<i>For Below Ground Installation, Add</i> 7.24		
			<i>For Work In Restricted Working Space, Add</i> 43.46		
22 13 16 00-0419	EA		4" x 2" No Hub Cast Iron Sanitary Cross 200.80		99.46
			<i>For Below Ground Installation, Add</i> 7.46		
			<i>For Work In Restricted Working Space, Add</i> 44.74		
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross 218.01		103.87
			<i>For Below Ground Installation, Add</i> 7.78		
			<i>For Work In Restricted Working Space, Add</i> 46.69		
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer 121.42		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer 165.78		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer 166.19		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer 180.79		107.67
			<i>For Below Ground Installation, Add</i> 8.07		
			<i>For Work In Restricted Working Space, Add</i> 48.42		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer	183.48	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer	184.54	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer	212.82	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer	213.22	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer	214.44	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer	298.06	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer	301.15	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer	306.12	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer	311.29	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer	311.89	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer	363.13	178.31
For Below Ground Installation, Add	13.36	
For Work In Restricted Working Space, Add	80.18	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer	386.56	186.14
For Below Ground Installation, Add	13.96	
For Work In Restricted Working Space, Add	83.75	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer	431.60	202.07
For Below Ground Installation, Add	15.15	
For Work In Restricted Working Space, Add	90.88	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug	57.89	35.27
For Below Ground Installation, Add	2.65	
For Work In Restricted Working Space, Add	15.88	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug	59.94	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug	71.72	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug	95.01	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug	109.85	59.95
For Below Ground Installation, Add	4.44	
For Work In Restricted Working Space, Add	26.63	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug	125.40	69.40
For Below Ground Installation, Add	5.21	
For Work In Restricted Working Space, Add	31.24	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug	202.89	90.52
For Below Ground Installation, Add	6.79	
For Work In Restricted Working Space, Add	40.73	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug	242.72	97.53
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap	72.76	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap	103.33	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap	153.27	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap	247.20	58.68
For Below Ground Installation, Add	4.40	
For Work In Restricted Working Space, Add	26.38	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap	264.33	69.97
For Below Ground Installation, Add	5.25	
For Work In Restricted Working Space, Add	31.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0455	EA	2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.04 3.50 21.03	46.81
	22 13 16 00-0456	EA	3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.21 4.66 27.99	62.24
	22 13 16 00-0457	EA	4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.59 6.16 36.96	82.21
22 13 16 00-0458 No Hub Cast Iron Closet Flanges <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0459	EA	4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.52 4.18 25.10	55.76
	22 13 16 00-0460	EA	4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.31 4.18 25.10	55.76
22 13 16 00-0461 No Hub Cast Iron Closet Bends <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0462	EA	4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.73 4.18 25.10	55.76
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0464	EA	1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.19 3.50 21.03	46.81
	22 13 16 00-0465	EA	1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.85 3.50 21.03	46.81
22 13 16 00-0466 No Hub Couplings <small>(22 13 16 00-0278)</small>					
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).					
	22 13 16 00-0467	EA	1-1/2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0468	EA	2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0469	EA	3" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	16.12 2.10 4.35	
	22 13 16 00-0470	EA	4" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	19.14 2.49 5.17	
	22 13 16 00-0471	EA	5" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	44.25 5.75 11.95	
	22 13 16 00-0472	EA	6" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	48.63 6.32 13.13	
	22 13 16 00-0473	EA	8" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	91.61 11.91 24.73	
	22 13 16 00-0474	EA	10" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	126.20 16.41 34.07	
	22 13 16 00-0475	EA	2" x 1-1/2" No Hub Reducing Coupling 16.12		
	22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling 25.00		
	22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling 34.88		
	22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling 29.72		
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>					
Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.					
	22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 33.37		
	22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 34.45		
	22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 36.17		
	22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 42.20		
	22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 79.66		
	22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 109.38		
	22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 191.63		
	22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts 292.82		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small> Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	12.67 3.80	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	15.50 4.65	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	16.91 5.07	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	21.13 6.34	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	25.35 7.61	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	33.80 10.14	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	39.44 11.83	
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small> See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	16.60	6.09
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	19.58	6.80
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe	25.02	8.40
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe	56.54	11.63
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe	75.77	13.12
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe	137.87	15.07
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	198.56	23.35
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small> Note: Aboveground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	26.70 6.24	5.44
22 13 16 00-0507 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.83 6.94	6.48
22 13 16 00-0508 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	40.51 8.63	9.34
22 13 16 00-0509 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	48.18 9.42	10.11
22 13 16 00-0510 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	70.00 12.07	12.97
22 13 16 00-0511 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	88.45 13.83	17.24
22 13 16 00-0512 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	121.90 18.02	23.08
22 13 16 00-0513 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0514 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0515 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	9.81	5.44
<i>For Work In Restricted Working Space, Add</i>	2.43	
22 13 16 00-0516 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	11.95	6.48
<i>For Work In Restricted Working Space, Add</i>	2.92	
22 13 16 00-0517 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	18.42	9.34
<i>For Work In Restricted Working Space, Add</i>	4.18	
22 13 16 00-0518 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	21.45	10.11
<i>For Work In Restricted Working Space, Add</i>	4.54	
22 13 16 00-0519 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	28.48	11.52
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 13 16 00-0520 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	40.09	15.33
<i>For Work In Restricted Working Space, Add</i>	6.92	
22 13 16 00-0521 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	56.84	20.52
<i>For Work In Restricted Working Space, Add</i>	9.22	



	MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0522		Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0513)</small>		
		Note: Excludes fittings or hangers.		
22 13 16 00-0523	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	9.30 2.43	5.44
22 13 16 00-0524	LF	2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.34 2.92	6.48
22 13 16 00-0525	LF	3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	17.27 4.18	9.34
22 13 16 00-0526	LF	4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.92 4.54	10.11
22 13 16 00-0527	LF	6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	25.63 5.18	11.52
22 13 16 00-0528	LF	8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	36.09 6.92	15.33
22 13 16 00-0529	LF	10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	52.49 9.22	20.52
22 13 16 00-0530		Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0531		Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0532	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	36.36 9.73	21.66
22 13 16 00-0533	EA	2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	46.50 12.45	27.62
22 13 16 00-0534	EA	3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	71.28 16.73	37.08
22 13 16 00-0535	EA	4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	97.78 19.45	43.18
22 13 16 00-0536	EA	6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	284.73 25.29	56.15
22 13 16 00-0537	EA	8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	456.80 34.04	75.61
22 13 16 00-0538	EA	10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	603.94 45.38	100.76
22 13 16 00-0539		Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0540	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	47.41 9.73	21.66
22 13 16 00-0541	EA	2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.86 12.45	27.62
22 13 16 00-0542	EA	3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.64 16.73	37.08
22 13 16 00-0543	EA	4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	127.77 19.45	43.18
22 13 16 00-0544	EA	6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	226.80 25.29	56.15
22 13 16 00-0545	EA	8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	380.68 34.04	75.61
22 13 16 00-0546	EA	10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	602.58 45.38	100.76
22 13 16 00-0547		Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0548	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	37.27 9.73	21.66
22 13 16 00-0549	EA	2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	46.42 12.45	27.62
22 13 16 00-0550	EA	3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	69.92 16.73	37.08
22 13 16 00-0551	EA	4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	91.12 19.45	43.18
22 13 16 00-0552	EA	6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	267.77 25.29	56.15
22 13 16 00-0553	EA	8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	417.37 34.04	75.61
22 13 16 00-0554	EA	10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	487.97 45.38	100.76
22 13 16 00-0555		Polyvinyl Chloride (PVC) DWV Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	55.67 14.59	32.42
22 13 16 00-0557	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	72.31 18.67	41.50
22 13 16 00-0558	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	110.45 25.09	55.76
22 13 16 00-0559	EA	4" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	148.37 29.18	64.84



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0560	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	423.73 37.93	84.16
22 13 16 00-0561	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	554.53 51.06	113.33
22 13 16 00-0562			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0563	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	65.89 15.95	35.40
22 13 16 00-0564	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	75.28 17.31	38.38
22 13 16 00-0565	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	67.78 17.31	38.38
22 13 16 00-0566	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	92.49 21.59	47.98
22 13 16 00-0567	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	96.05 22.95	50.97
22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	108.61 24.32	53.94
22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	154.88 25.68	57.05
22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	186.92 27.82	61.72
22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	404.23 35.01	77.68
22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,146.72 43.77	97.12
22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,188.71 46.68	103.61
22 13 16 00-0574			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	86.04 19.45	43.18
22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	114.04 24.90	55.24
22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	198.60 33.46	74.31
22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	269.68 38.90	86.36
22 13 16 00-0579			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	101.98 22.17	49.28
22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	154.10 26.45	58.74
22 13 16 00-0582	EA		3" x 2" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	175.36 29.18	64.84
22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	278.33 31.90	70.81
22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	297.32 36.18	80.27
22 13 16 00-0585			Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0530)</small>		
22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	44.84 11.09	24.64
22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	69.23 13.23	29.31
22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	69.68 14.59	32.42
22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	94.82 15.95	35.40
22 13 16 00-0590	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	103.84 18.09	40.20
22 13 16 00-0591	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	289.99 21.01	46.68
22 13 16 00-0592	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	251.22 22.37	49.67
22 13 16 00-0593	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	573.91 26.75	59.39
22 13 16 00-0594	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	497.72 29.66	65.88
22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	660.65 35.34	78.45
22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	539.63 39.71	88.18
22 13 16 00-0597			Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0530)</small>		
22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	62.41 14.59	32.42



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	81.02 18.67	41.50
22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	177.16 25.09	55.76
22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	319.96 29.18	64.84
22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	520.19 37.93	84.16
22 13 16 00-0603			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)		
22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	91.27 19.45	43.18
22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	78.78 18.09	40.20
22 13 16 00-0606			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	62.72 14.59	32.42
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	76.40 18.67	41.50
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	115.67 25.09	55.76
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	156.93 29.18	64.84
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	391.63 37.93	84.16
22 13 16 00-0612	EA		8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	493.54 51.06	113.33
22 13 16 00-0613	EA		10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	651.22 68.08	151.07
22 13 16 00-0614			Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	78.31 15.95	35.40
22 13 16 00-0616	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	82.62 17.31	38.38
22 13 16 00-0617	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	111.11 21.59	47.98
22 13 16 00-0618	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	101.27 22.95	50.97
22 13 16 00-0619	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	143.19 24.32	53.94
22 13 16 00-0620	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	133.52 25.68	57.05
22 13 16 00-0621	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	148.68 27.82	61.72
22 13 16 00-0622	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	352.74 33.65	74.69
22 13 16 00-0623	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	424.40 35.01	77.68
22 13 16 00-0624	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	423.03 43.77	97.12
22 13 16 00-0625	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	518.23 46.68	103.61
22 13 16 00-0626	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	495.94 55.11	122.29
22 13 16 00-0627	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	598.52 58.03	128.77
22 13 16 00-0628	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	687.27 62.40	138.49
22 13 16 00-0629			Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)		
22 13 16 00-0630	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	94.83 19.45	43.18
22 13 16 00-0631	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	121.53 24.90	55.24
22 13 16 00-0632	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	211.10 33.46	74.31
22 13 16 00-0633	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	331.55 38.90	86.36
22 13 16 00-0634	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	625.77 50.57	112.30
22 13 16 00-0635	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	742.93 68.08	151.20
22 13 16 00-0636	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,124.78 90.77	201.51
22 13 16 00-0637			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0638	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	109.12 22.17	49.28
22 13 16 00-0639	EA		3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	175.55 26.45	58.74
22 13 16 00-0640	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	171.39 29.18	64.84
22 13 16 00-0641	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	227.35 31.90	70.81
22 13 16 00-0642	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	280.45 36.18	80.27
22 13 16 00-0643	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	411.67 44.74	99.33
22 13 16 00-0644	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	484.02 53.49	118.78
22 13 16 00-0645	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	599.68 59.33	131.75
22 13 16 00-0646	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	637.62 64.84	143.94
22 13 16 00-0647	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	802.63 70.67	156.90
22 13 16 00-0648	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	959.34 79.42	176.36
22 13 16 00-0649			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0650	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.50 14.59	32.42
22 13 16 00-0651	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	90.11 18.67	41.50
22 13 16 00-0652	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	156.86 25.09	55.76
22 13 16 00-0653	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	249.31 29.18	64.84
22 13 16 00-0654			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0655	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.41 17.31	38.38
22 13 16 00-0656	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	172.22 21.59	47.98
22 13 16 00-0657	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	139.16 22.95	50.97
22 13 16 00-0658	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	224.97 25.68	57.05
22 13 16 00-0659	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	243.69 27.82	61.72
22 13 16 00-0660			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0661	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	101.64 19.45	43.18
22 13 16 00-0662	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	122.29 24.90	55.24
22 13 16 00-0663	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	179.82 33.46	74.31
22 13 16 00-0664	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	489.51 38.90	86.36
22 13 16 00-0665	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,474.96 50.57	112.30
22 13 16 00-0666			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0667	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	194.33 22.17	49.28
22 13 16 00-0668	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	301.27 29.18	64.84
22 13 16 00-0669	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	486.54 31.90	70.81
22 13 16 00-0670	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	453.35 36.18	80.27
22 13 16 00-0671	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,002.59 44.74	99.33
22 13 16 00-0672			Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0673	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	129.27 18.67	41.50
22 13 16 00-0674	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	211.69 25.09	55.76



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0675	EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	.....	320.00 29.18	64.84
22 13 16 00-0676	EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	.....	773.65 37.93	84.16
22 13 16 00-0677	EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	.....	976.02 51.06	113.33
22 13 16 00-0678	EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	.....	1,295.78 68.08	151.07
22 13 16 00-0679	Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0530)</small>			
22 13 16 00-0680	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	44.01 9.73	21.66
22 13 16 00-0681	EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	60.20 12.45	27.62
22 13 16 00-0682	EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	84.54 16.73	37.08
22 13 16 00-0683	EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	132.46 19.45	43.18
22 13 16 00-0684	EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	269.89 25.29	56.15
22 13 16 00-0685	EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	566.03 34.04	75.61
22 13 16 00-0686	EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	.....	1,012.13 45.36	100.76
22 13 16 00-0687	Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0530)</small>			
22 13 16 00-0688	EA 1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	35.85 9.73	21.66
22 13 16 00-0689	EA 2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	45.36 12.45	27.62
22 13 16 00-0690	EA 3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	65.63 16.73	37.08
22 13 16 00-0691	EA 4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	81.06 19.45	43.18
22 13 16 00-0692	EA 6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	173.81 25.29	56.15
22 13 16 00-0693	EA 8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	372.06 34.04	75.61
22 13 16 00-0694	EA 10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	.....	552.02 45.39	100.76
22 13 16 00-0695	Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0530)</small>			
22 13 16 00-0696	EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	.....	19.69 4.86	10.76
22 13 16 00-0697	EA 2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	.....	29.29 6.22	13.87
22 13 16 00-0698	EA 3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	.....	51.59 8.36	18.54
22 13 16 00-0699	EA 4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	.....	86.75 9.73	21.66
22 13 16 00-0700	Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>			
	Note: In place piping.			
22 13 16 00-0701	EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	9.50	
22 13 16 00-0702	EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	10.46	
22 13 16 00-0703	EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	13.30	
22 13 16 00-0704	EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	17.96	
22 13 16 00-0705	EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	25.66	
22 13 16 00-0706	EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	34.22	
22 13 16 00-0707	EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	.....	41.84	
22 13 16 00-0708	Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>			
	Note: Aboveground installation.			
22 13 16 00-0709	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0708)</small>			
	Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.			
22 13 16 00-0710	LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	.....	28.47 7.46	5.44
22 13 16 00-0711	LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	.....	31.59 8.26	6.48

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	41.55 10.26	9.34
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	47.20 11.40	10.11
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	72.72 15.16	12.97
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0708)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.10 2.43	5.44
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.40 2.92	6.48
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.47 4.18	9.34
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.04 4.54	10.11
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	33.39 5.18	11.52
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0708)</small>		
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	40.89 9.73	21.66
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	53.59 12.45	27.62
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	93.05 16.73	37.08
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	137.91 19.45	43.18
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	357.02 25.29	56.15
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.61 9.73	21.66
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	65.04 12.45	27.62
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	121.49 16.73	37.08
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	194.48 19.45	43.18
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	42.48 9.73	21.66
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.48 12.45	27.62
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.22 16.73	37.08
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	127.15 19.45	43.18
22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	368.38 25.29	56.15
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.06 14.59	32.42
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	83.93 18.67	41.50
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	138.90 25.09	55.76
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	203.44 29.18	64.84
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	701.97 37.93	84.16



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0745				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0746	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 76.18 <i>For Work In Restricted Working Space, Add</i> 15.95		35.40
	22 13 16 00-0747	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 90.02 <i>For Work In Restricted Working Space, Add</i> 17.31		38.38
	22 13 16 00-0748	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 78.50 <i>For Work In Restricted Working Space, Add</i> 17.31		38.38
	22 13 16 00-0749	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 114.18 <i>For Work In Restricted Working Space, Add</i> 21.59		47.98
	22 13 16 00-0750	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 119.11 <i>For Work In Restricted Working Space, Add</i> 22.95		50.97
	22 13 16 00-0751	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 234.09 <i>For Work In Restricted Working Space, Add</i> 24.32		53.94
	22 13 16 00-0752	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 228.44 <i>For Work In Restricted Working Space, Add</i> 25.68		57.05
	22 13 16 00-0753	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 260.24 <i>For Work In Restricted Working Space, Add</i> 27.82		61.72
	22 13 16 00-0754	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 760.20 <i>For Work In Restricted Working Space, Add</i> 35.01		77.68
22 13 16 00-0755				Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0756	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 108.67 <i>For Work In Restricted Working Space, Add</i> 19.45		43.18
	22 13 16 00-0757	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 146.94 <i>For Work In Restricted Working Space, Add</i> 24.90		55.24
	22 13 16 00-0758	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 291.16 <i>For Work In Restricted Working Space, Add</i> 33.46		74.31
	22 13 16 00-0759	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 417.58 <i>For Work In Restricted Working Space, Add</i> 38.90		86.36
22 13 16 00-0760				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0761	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 123.62 <i>For Work In Restricted Working Space, Add</i> 22.17		49.28
	22 13 16 00-0762	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 179.73 <i>For Work In Restricted Working Space, Add</i> 26.45		58.74
	22 13 16 00-0763	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 205.59 <i>For Work In Restricted Working Space, Add</i> 29.18		64.84
	22 13 16 00-0764	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 333.11 <i>For Work In Restricted Working Space, Add</i> 28.36		62.94
	22 13 16 00-0765	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 352.38 <i>For Work In Restricted Working Space, Add</i> 32.16		71.36
22 13 16 00-0766				Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0767	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 77.68 <i>For Work In Restricted Working Space, Add</i> 14.59		32.42
	22 13 16 00-0768	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 92.07 <i>For Work In Restricted Working Space, Add</i> 18.67		41.50
	22 13 16 00-0769	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 149.65 <i>For Work In Restricted Working Space, Add</i> 25.09		55.76
	22 13 16 00-0770	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 220.24 <i>For Work In Restricted Working Space, Add</i> 29.18		64.84
	22 13 16 00-0771	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 577.70 <i>For Work In Restricted Working Space, Add</i> 37.93		84.16
22 13 16 00-0772				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0773	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes 105.00 <i>For Work In Restricted Working Space, Add</i> 15.95		35.40
	22 13 16 00-0774	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes 109.01 <i>For Work In Restricted Working Space, Add</i> 17.31		38.38
	22 13 16 00-0775	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 127.81 <i>For Work In Restricted Working Space, Add</i> 22.95		50.97
	22 13 16 00-0776	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 184.40 <i>For Work In Restricted Working Space, Add</i> 25.68		57.05
	22 13 16 00-0777	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 208.16 <i>For Work In Restricted Working Space, Add</i> 27.82		61.72
	22 13 16 00-0778	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 489.55 <i>For Work In Restricted Working Space, Add</i> 35.01		77.68
22 13 16 00-0779				Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0780	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 126.62 <i>For Work In Restricted Working Space, Add</i> 19.45		43.18
	22 13 16 00-0781	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 162.46 <i>For Work In Restricted Working Space, Add</i> 24.90		55.24
	22 13 16 00-0782	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 316.97 <i>For Work In Restricted Working Space, Add</i> 33.46		74.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0783 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	545.85 38.90	86.36
22 13 16 00-0784 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	146.49 22.17	49.28
22 13 16 00-0786 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	233.10 26.45	58.74
22 13 16 00-0787 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	249.79 29.18	64.84
22 13 16 00-0788 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	355.85 31.90	70.81
22 13 16 00-0789 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	450.19 36.18	80.27
22 13 16 00-0790 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0791 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	95.03 14.59	32.42
22 13 16 00-0792 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	122.54 18.67	41.50
22 13 16 00-0793 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	183.00 25.09	55.76
22 13 16 00-0794 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	281.51 25.94	57.64
22 13 16 00-0795 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0796 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	106.54 17.31	38.38
22 13 16 00-0797 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	187.61 21.59	47.98
22 13 16 00-0798 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	148.77 22.95	50.97
22 13 16 00-0799 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	246.55 25.68	57.05
22 13 16 00-0800 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	267.02 27.82	61.72
22 13 16 00-0801 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0802 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	192.16 24.90	55.24
22 13 16 00-0803 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	363.32 33.46	74.31
22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0805 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	161.77 22.17	49.28
22 13 16 00-0806 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	344.76 29.18	64.84
22 13 16 00-0807 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0721)		
22 13 16 00-0808 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	103.21 14.59	32.42
22 13 16 00-0809 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	130.72 18.67	41.50
22 13 16 00-0810 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	201.27 25.09	55.76
22 13 16 00-0811 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	317.14 29.18	64.84
22 13 16 00-0812 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0721)		
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	51.13 9.73	21.66
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	71.70 12.45	27.62
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	102.16 16.73	37.08
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	174.08 19.45	43.18



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	384.20 25.29	56.15
22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0721)		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.87 9.73	21.66
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	48.30 12.45	27.62
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	74.26 16.73	37.08
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	95.33 19.45	43.18
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	235.02 25.29	56.15
22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	53.31 11.09	24.64
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	95.92 13.23	29.31
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	92.09 14.59	32.42
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	138.89 15.95	35.40
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	149.99 18.09	40.20
22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	80.32 14.59	32.42
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	113.54 18.67	41.50
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	318.61 25.09	55.76
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	578.66 29.18	64.84
22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	109.09 19.45	43.18
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	101.81 18.09	40.20
22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.44 4.86	10.76
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.33 6.22	13.87
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	70.37 8.36	18.54
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	126.42 9.73	21.66
22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.76 11.09	24.64
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	80.77 13.23	29.31
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	71.94 14.59	32.42
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	137.71 15.95	35.40
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	109.29 18.09	40.20
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	258.39 19.88	44.15
22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling..... <i>For Work In Restricted Working Space, Add</i>	89.21 9.73	21.66
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	102.08 12.45	27.62
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	120.13 16.73	37.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0854 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	132.99 19.45	43.18
22 13 16 00-0855 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe <small>(22 13 16 00-0708)</small> Note: In place piping.		
22 13 16 00-0856 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	9.50	
22 13 16 00-0857 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.46	
22 13 16 00-0858 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	13.30	
22 13 16 00-0859 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	17.96	
22 13 16 00-0860 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	25.66	
22 13 16 00-0861 Elastomeric Flexible Pipe Couplings <small>(22 13 16)</small>		
22 13 16 00-0862 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0863 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)	17.44	5.63
<i>For Work In Restricted Working Space, Add</i>	3.38	
22 13 16 00-0864 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	18.81	5.98
<i>For Work In Restricted Working Space, Add</i>	3.59	
22 13 16 00-0865 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	19.77	6.34
<i>For Work In Restricted Working Space, Add</i>	3.80	
22 13 16 00-0866 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	22.97	6.69
<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0867 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	26.10	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0868 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	33.61	7.39
<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0869 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	41.18	7.74
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0870 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	56.41	8.45
<i>For Work In Restricted Working Space, Add</i>	5.07	
22 13 16 00-0871 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	74.63	9.86
<i>For Work In Restricted Working Space, Add</i>	5.92	
22 13 16 00-0872 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0873 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)	18.57	5.98
<i>For Work In Restricted Working Space, Add</i>	3.59	
22 13 16 00-0874 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)	20.17	6.34
<i>For Work In Restricted Working Space, Add</i>	3.80	
22 13 16 00-0875 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)	24.95	6.69
<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0876 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)	22.25	6.69
<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0877 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)	30.97	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0878 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)	29.59	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0879 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)	27.02	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0880 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)	39.64	7.39
<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0881 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)	35.71	7.39
<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0882 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)	49.29	7.74
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0883 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64)	43.42	7.74
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0884 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65)	45.05	7.74
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0885 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84)	88.62	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
22 13 16 00-0886 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86)	72.33	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
22 13 16 00-0887 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)	91.83	15.85
<i>For Work In Restricted Working Space, Add</i>	9.51	
22 13 16 00-0888 Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0889 EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	62.89	38.02
22 13 16 00-0890 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	67.53	40.42
22 13 16 00-0891 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	78.28	46.34
22 13 16 00-0892 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	103.26	61.26
22 13 16 00-0893 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	123.83	73.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	142.54	84.51
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	192.45	107.04
22 13 16 00-0896 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	238.83	119.71
22 13 16 00-0897 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	305.92	133.10
22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0899 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	103.22	29.18
22 13 16 00-0900 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	109.71	32.42
22 13 16 00-0901 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	161.21	42.14
22 13 16 00-0902 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	188.61	48.63
22 13 16 00-0903 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	219.19	55.11
22 13 16 00-0904 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	353.95	61.59
22 13 16 00-0905 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0906 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	199.41	29.18
22 13 16 00-0907 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	205.90	32.42
22 13 16 00-0908 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	246.44	42.14
22 13 16 00-0909 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	306.42	48.63
22 13 16 00-0910 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	413.43	55.11
22 13 16 00-0911 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	426.40	61.59
22 13 16 00-0912 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0913 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	367.74	29.18
22 13 16 00-0914 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	374.23	32.42
22 13 16 00-0915 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	432.35	42.14
22 13 16 00-0916 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	487.22	48.63
22 13 16 00-0917 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	567.86	55.11
22 13 16 00-0918 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	621.12	61.59
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	774.99	139.40
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	853.07	156.26
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	842.04	172.86
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	877.64	190.75
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	785.84	156.26
<i>For Galvanized Cast Iron Parts, Add</i>		
87.50		
<i>For Vandal Proof Screws, Add</i>		
30.50		
<i>For Ductile Iron Grate, Add</i>		
48.00		
<i>For Cast Iron Dome Grate, Add</i>		
17.00		
<i>For Nikaloy Dome Grate, Add</i>		
178.50		
<i>For Bronze Dome Grate, Add</i>		
143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>		
57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i>		
117.50		
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	819.17	172.86
<i>For Galvanized Cast Iron Parts, Add</i>		
87.50		
<i>For Vandal Proof Screws, Add</i>		
30.50		
<i>For Ductile Iron Grate, Add</i>		
48.00		
<i>For Cast Iron Dome Grate, Add</i>		
17.00		
<i>For Nikaloy Dome Grate, Add</i>		
178.50		
<i>For Bronze Dome Grate, Add</i>		
143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>		
57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i>		
117.50		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	854.77	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,256.92	156.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,290.25	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,325.85	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,188.31	156.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,221.46	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,257.24	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,297.93	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,331.23	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,367.01	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,002.27	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,035.57	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,071.35	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,908.51	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,941.81	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,977.59	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0024 Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top	916.04	156.13
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	949.70	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	985.12	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	984.64	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,018.30	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,053.72	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,286.50	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,320.16	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,355.58	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	865.73	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	899.39	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	934.81	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	952.62	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	986.28	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,021.70	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,197.31	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,230.97	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,266.39	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top	2,996.38	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top	3,031.80	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top	3,741.88	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top	3,777.30	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	3,652.69	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	3,688.11	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,304.79	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,338.45	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0051	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,373.87	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0052	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,659.25	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0053	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,692.91	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0054	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,728.33	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0055	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,741.57	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0056	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,775.23	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0057	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,810.65	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0058	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,379.59	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0059	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,413.25	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0060	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,448.67	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0061	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,231.61	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0062	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,265.27	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0063	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,300.69	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0064	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,533.47	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0065	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,567.13	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0066	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,602.55	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0067	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,615.80	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,649.46	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,684.88	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,134.90	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,168.56	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,203.98	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0073			Funnel Type Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,227.89	139.40
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,261.34	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,294.64	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,330.42	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	1,775.87	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	1,809.17	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	1,844.95	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,686.69	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,719.99	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	1,755.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0084			Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>		
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,535.82	139.40
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	2,569.39	156.13
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	2,602.69	172.86
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	2,638.47	190.75
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,675.38	209.17
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,743.19	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,776.85	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,812.27	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,849.18	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,711.84	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,745.50	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,780.92	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,817.83	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,564.82	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,598.48	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,633.90	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,670.81	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0102 Other Drains <small>(22 13 19 13)</small>		
22 13 19 13-0103 Shower Drains <small>(22 13 19 13-0102)</small>		
22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer	48.41	14.09
Note: Includes two 2-5/8" screws.		
22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer	53.18	14.09
Note: Includes two 2-5/8" screws.		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0106 EA 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	113.72	28.17
Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107 EA 4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	141.14	28.17
Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109 EA 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,236.92	139.40
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,270.49	156.13
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,303.79	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113 EA Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0114 EA Lever Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0115 EA Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0116 EA Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0117 EA Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0118 EA Twist Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0119 EA Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0120 EA Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0121 EA Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	366.87	103.74
22 13 19 13-0122 Floor Receptor (22 13 19 13)		
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	1,510.81	156.26
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	1,544.63	173.11
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection.....	1,579.68	190.75
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0127 Square Top Floor Receptors (22 13 19 13-0122)		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top.....	1,760.72	139.40
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,794.32	156.26
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 19 13-0130	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,827.47	172.86
				<i>For Flange With Seepage Holes, Add</i>	37.50	
				<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
				<i>For Trap Primer Connection, Add</i>	39.50	
				<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
				<i>For Vandal Proof Secured Grate, Add</i>	15.50	
				<i>For White Acid Resistant Bucket, Add</i>	88.00	
				<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
	22 13 19 13-0131	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,863.25	190.75
				<i>For Flange With Seepage Holes, Add</i>	37.50	
				<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
				<i>For Trap Primer Connection, Add</i>	39.50	
				<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
				<i>For Vandal Proof Secured Grate, Add</i>	15.50	
				<i>For White Acid Resistant Bucket, Add</i>	88.00	
				<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
	22 13 19 13-0132			Floor Drain Accessories (22 13 19 13)		
	22 13 19 13-0133	EA		3" Trap Guard Floor Drain Insert (ProVent TG3H).....	100.12	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0134	EA		2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	83.20	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0135	EA		3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	89.96	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0136	EA		3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	106.89	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0137	EA		3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	96.74	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0138	EA		2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	134.23	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0139	EA		3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	147.86	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 13-0140	EA		4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	181.69	16.21
				Note: Prevents emission of sewer gases.		
	22 13 19 26			Grease Removal Devices (22 13 19)		
	22 13 19 26-0001			Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
				Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
	22 13 19 26-0002			Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-		
				0001)		
				Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
	22 13 19 26-0003	EA		7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,131.29	97.26
				Note: Josam 60102H.		
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,352.91	
	22 13 19 26-0004	EA		10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,316.34	218.83
				Note: Josam 60103H.		
				<i>For Flange And Clamp Device, Add</i>	406.05	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,432.27	
	22 13 19 26-0005	EA		15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,841.16	243.14
				Note: Josam 60104H.		
				<i>For Flange And Clamp Device, Add</i>	422.26	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,565.06	
	22 13 19 26-0006	EA		20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,213.35	267.46
				Note: Josam 60105H.		
				<i>For Flange And Clamp Device, Add</i>	438.47	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,692.42	
	22 13 19 26-0007	EA		25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,475.00	291.77
				Note: Josam 60106H.		
				<i>For Flange And Clamp Device, Add</i>	485.07	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,765.05	
	22 13 19 26-0008	EA		35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,032.24	340.40
				Note: Josam 60107H.		
				<i>For Flange And Clamp Device, Add</i>	528.69	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,946.16	
	22 13 19 26-0009	EA		50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,933.35	389.02
				Note: Josam 60108H.		
				<i>For Flange And Clamp Device, Add</i>	602.07	
				<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,080.23	
	22 13 19 26-0010	EA		75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	7,601.14	437.65
				Note: Josam 60109H.		
				<i>For Flange And Clamp Device, Add</i>	835.77	
	22 13 19 26-0011	EA		100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	8,576.95	511.61
				Note: Josam 60110H.		
				<i>For Flange And Clamp Device, Add</i>	949.08	
	22 13 19 26-0012	EA		150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	10,646.49	818.58
				Note: Josam 60213A.		
				<i>For Flange And Clamp Device, Add</i>	1,313.72	
	22 13 19 26-0013	EA		200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	15,225.82	1,023.23
				Note: Josam 60214A.		
				<i>For Flange And Clamp Device, Add</i>	1,579.44	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	17,772.96	1,227.88
<i>For Flange And Clamp Device, Add</i>	2,028.82	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.,	23,037.68	1,432.52
<i>For Flange And Clamp Device, Add</i>	2,403.02	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	29,731.06	1,637.16
<i>For Flange And Clamp Device, Add</i>	2,812.73	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small> Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,139.67	267.46
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,037.51	340.40
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	6,590.68	389.02
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	2,743.00	97.26
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,352.91	
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,221.62	218.83
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,432.27	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	3,445.85	243.14
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,565.06	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	4,193.48	267.46
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,692.42	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	5,042.86	291.77
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,765.05	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	5,229.92	340.40
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,946.16	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	5,970.21	389.02
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,080.23	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	6,979.64	340.40
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	6,026.41	267.46
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	6,986.87	291.77
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	6,037.37	340.40
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor.....	6,730.99	446.78
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor.....	7,708.75	446.78
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor.....	8,748.88	510.77
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor.....	9,939.47	721.34
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor.....	11,172.54	970.50
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor.....	16,778.67	1,276.86
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor.....	21,487.47	2,093.86
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,499.88	370.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,038.31	440.14
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,314.77	541.55
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,944.23	586.61
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,509.13	640.13
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,479.92	704.21
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,795.91	810.47
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	22,780.58	997.20
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	27,912.61	1,080.85
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	38,976.16	1,296.75
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	44,922.46	1,394.01
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	56,553.50	1,662.44
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	68,029.27	1,362.24
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	80,591.24	1,620.95
 22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	356.53	37.21
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	370.79	46.81
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	531.72	62.24
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,373.86	80.58
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,683.95	106.05
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	4,779.58	130.84
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	5,425.71	169.69
 22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	897.56	88.73
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,346.55	107.63
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,670.36	138.76
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,292.39	146.41
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,156.25	173.49
 22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,329.69	140.44
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,399.19	186.73
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,445.83	216.84
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,483.52	241.74
 22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	136.30	46.81
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	166.30	62.24
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	431.99	80.58
 22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	313.50	93.62
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	417.43	124.49
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	683.49	161.16
Note: Includes valve body, flapper assembly and collar.		
 22 13 19 36 Air-Admittance Valves (22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	212.43	18.16
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	252.77	18.16
 22 13 23 Sanitary Waste Interceptors (22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	1,094.11	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	1,095.40	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,514.84	183.63
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,514.84	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,609.80	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	348.20	62.81
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	356.23	66.90
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers (22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	191.53	85.68
22 13 29 Sanitary Sewerage Pumps (22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DEMING Series 4500) (22 13 29 13)		
Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,624.02	1,555.58
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,839.94	1,555.58
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,055.86	1,555.58
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,261.81	1,555.58
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,221.95	1,555.58
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,304.99	1,555.58
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,363.12	1,555.58
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,761.74	1,555.58
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,152.05	1,555.58
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,749.98	1,555.58
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,347.90	1,555.58
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,974.94	2,070.14
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,781.93	1,555.58
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,898.32	1,555.58
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,094.16	1,555.58
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,043.83	2,070.14
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,542.10	2,070.14
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	607.85	51.87
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	673.31	58.35
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	931.75	77.81



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0038	EA		40" Steel Sump Covers, Square Or Round.....	1,334.36	90.78
22 13 29 13-0039	EA		42" Steel Sump Covers, Square Or Round.....	1,427.73	94.02
22 13 29 13-0040	EA		48" Steel Sump Covers, Square Or Round.....	1,524.32	97.26
22 13 29 13-0041	EA		54" Steel Sump Covers, Square Or Round.....	1,936.03	116.71
22 13 29 13-0042	EA		60" Steel Sump Covers, Square Or Round.....	2,599.35	129.67
22 13 29 13-0043	EA		72" Steel Sump Covers, Square Or Round.....	3,295.92	162.10
22 13 29 13-0044	EA		84" Steel Sump Covers, Square Or Round.....	4,167.48	178.30

22 13 29 16 Submersible Sewerage Pumps (22 13 29)

22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)

22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)

Note: Includes 25' cord.

22 13 29 16-0003	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,122.53	94.36
22 13 29 16-0004	EA		1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,188.84	94.36
22 13 29 16-0005	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,168.44	94.36
22 13 29 16-0006	EA		1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36
22 13 29 16-0007	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36
22 13 29 16-0008	EA		1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,362.15	117.95
22 13 29 16-0009	EA		1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,448.87	117.95
22 13 29 16-0010	EA		1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,459.92	117.95

22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)

Note: Includes 20' cord.

22 13 29 16-0012	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,141.23	94.36
22 13 29 16-0013	EA		1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,236.45	94.36
22 13 29 16-0014	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,191.39	94.36
22 13 29 16-0015	EA		1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,283.22	94.36
22 13 29 16-0016	EA		1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,365.68	94.36
22 13 29 16-0017	EA		1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,309.44	117.95
22 13 29 16-0018	EA		1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,408.06	117.95
22 13 29 16-0019	EA		1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,407.21	117.95
22 13 29 16-0020	EA		1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,679.68	190.14
22 13 29 16-0021	EA		1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,763.00	190.14
22 13 29 16-0022	EA		1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,777.46	190.14
22 13 29 16-0023	EA		2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,840.08	232.39
22 13 29 16-0024	EA		2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,935.30	232.39
22 13 29 16-0025	EA		2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,937.85	232.39

22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)

Note: Includes 20' cord.

22 13 29 16-0027	EA		1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,331.68	94.36
22 13 29 16-0028	EA		1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,493.22	94.36
22 13 29 16-0029	EA		1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,490.53	117.95
22 13 29 16-0030	EA		1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,588.30	117.95
22 13 29 16-0031	EA		1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,874.38	190.14
22 13 29 16-0032	EA		1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,972.15	190.14
22 13 29 16-0033	EA		2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,035.62	232.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,133.40	232.39
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller <small>(22 13 29 16)</small>		
Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,166.63	117.95
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,401.77	172.42
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,674.39	210.73
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,876.91	255.43
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,362.15	300.13
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,880.47	344.83
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof <small>(22 13 29 16)</small>		
Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,596.72	422.67
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,957.06	563.55
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,401.95	704.44
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,767.40	845.34
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,514.59	986.23
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0060 Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	573.22	102.62
Note: Includes alarm horn, warning light and alarm float switch.		
22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	589.46	102.62
Note: Includes alarm horn, warning light, and alarm float switch.		
22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,111.96	136.83
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.		
22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,527.86	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,407.37	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,560.51	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	5,657.51	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,786.31	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0069	EA			Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps .....1,247.79	1,247.79	171.03
				Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0070	EA			Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps .....1,361.52	1,361.52	171.03
				Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0071	EA			Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps .....1,311.97	1,311.97	171.03
				Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0072	EA			Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps .....1,414.46	1,414.46	171.03
				Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0073	EA			Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps .....2,329.87	2,329.87	171.03
				Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074	EA			Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure .....462.57	462.57	68.41
				Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075	EA			Variable Level (Clamp Type) Float Switch With 15' Cord .....104.15	104.15	34.21
				Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076	EA			Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only .....119.92	119.92	34.21
22 13 29 16-0077	EA			Variable Level (Adjustable Weight Type) Float Switch With 25' Cord .....125.99	125.99	34.21
				Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078	EA			Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only .....131.60	131.60	34.21
22 13 29 16-0079	EA			Float Switch Tree With (3) 15' Floats .....324.47	324.47	34.21
				Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080	EA			Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only .....366.35	366.35	34.21
22 13 29 16-0081	EA			Float Switch Tree And (4) Floats With 15' Cords .....358.27	358.27	34.21
				Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082	EA			Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only .....413.87	413.87	34.21
22 13 29 16-0083	EA			Float Switch Tree .....185.16	185.16	34.21
				Note: Tree only.		
22 13 29 16-0084	EA			Adjustable Weight For Float Switch .....55.62	55.62	17.10
22 13 29 16-0085	EA			Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge .....918.27	918.27	102.62
				Note: Lifting equipment not included.		
22 13 29 16-0086	EA			Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge .....1,421.28	1,421.28	136.83
				Note: Lifting equipment not included.		
22 13 29 16-0087	EA			Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge .....1,850.54	1,850.54	171.03
				Note: Lifting equipment not included.		
22 13 29 16-0088	EA			Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge .....1,967.37	1,967.37	102.62
22 13 29 16-0089	EA			Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge .....2,749.98	2,749.98	102.62
22 13 29 16-0090	EA			Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System .....294.01	294.01	68.41
22 13 29 16-0091	EA			Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems .....491.32	491.32	85.52
22 13 29 16-0092	EA			Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems .....505.25	505.25	102.62
22 13 29 16-0093	EA			12' Stainless Steel Lifting Cable .....145.31	145.31	34.21
22 13 29 16-0094	EA			Disconnect Fitting For 2" Horizontal Discharge .....261.94	261.94	34.21
				Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001	EA			Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002	EA			High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA			18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....118.91	118.91	
22 13 29 33-0004	EA			18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....147.44	147.44	
22 13 29 33-0005	EA			24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....292.89	292.89	
22 13 29 33-0006	EA			24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....398.63	398.63	
22 13 29 33-0007	EA			30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....504.37	504.37	
22 13 29 33-0008	EA			36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....582.53	582.53	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010	EA			18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....332.43	332.43	
22 13 29 33-0011	EA			24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....656.75	656.75	
22 13 29 33-0012	EA			30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....1,165.40	1,165.40	
22 13 29 33-0013	EA			36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....1,561.61	1,561.61	
22 13 29 33-0014	EA			36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....1,797.02	1,797.02	
22 13 29 33-0015	EA			36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub .....1,898.09	1,898.09	
22 13 29 33-0016	EA			36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub .....2,226.20	2,226.20	
22 13 29 33-0017	EA			48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....2,583.49	2,583.49	

22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)
See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001) Note: Dome free area is 124 square inches.		
22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	958.92	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,066.98	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,175.04	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,563.37	389.02
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,617.40	432.21
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,885.15	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,482.21	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001) Note: With polypropylene dome. Dome free area is 124 square inches.		
22 14 26 13-0011 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	1,451.58	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0012 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	1,594.05	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0013 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	1,769.13	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0014 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	2,427.33	389.02
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0015 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	2,606.34	432.21
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top (22 14 26 13-0001)		
22 14 26 13-0017 EA 14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	1,936.24	216.17
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	



	Plumbing 22
	Plumbing Piping 22 10
	Facility Storm Drainage 22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0018	EA		14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,044.30 197.00 130.00 147.00 357.00	259.35
22 14 26 13-0019	EA		14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,152.36 197.00 130.00 147.00 357.00	324.19
22 14 26 13-0020	EA		14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,526.21 197.00 130.00 147.00 357.00	389.02
22 14 26 13-0021	EA		14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,580.24 197.00 130.00 147.00 357.00	432.21
22 14 26 13-0022			Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)		
22 14 26 13-0023	EA		Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,226.23 33.00 128.00	86.49
22 14 26 13-0024	EA		Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,269.45 33.00 128.00	108.02
22 14 26 13-0025	EA		Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,289.10 33.00 128.00 258.00	117.88
22 14 26 13-0026	EA		Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,809.22 33.00 258.00	156.26
22 14 26 13-0027	EA		Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,878.15 33.00 258.00	190.75
22 14 26 13-0028			Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001) Note: Grate free area is 27 square inches.		
22 14 26 13-0029	EA		9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,042.17 144.00 80.40 93.60	216.17
22 14 26 13-0030	EA		9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,150.23 144.00 80.40 93.60	259.35
22 14 26 13-0031	EA		9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,258.29 144.00 80.40 93.60	324.19
22 14 26 13-0032			Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26 13-0033	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,114.56 518.00 130.00 147.00 357.00	216.17
22 14 26 13-0034	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,222.62 518.00 130.00 147.00 357.00	259.35
22 14 26 13-0035	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,330.68 518.00 130.00 147.00 357.00	324.19
22 14 26 13-0036	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,719.01 518.00 130.00 147.00 357.00	389.02
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,773.04 518.00 130.00 147.00 357.00	432.21

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	2,040.80	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	2,637.86	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,141.71	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,249.77	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,357.83	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,800.19	431.82
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,068.20	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome.....	2,665.01	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049 Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome	853.97	259.35
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome	974.10	324.19
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	1,184.45	389.02
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	1,286.74	431.82
22 14 26 13-0054 Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	962.55	259.35
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,077.85	324.19
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,295.44	389.02
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,363.95	431.82
22 14 26 13-0059 Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	858.80	259.35
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	978.92	324.19
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,189.28	389.02
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,252.96	431.82
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	946.97	162.10



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,743.19	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,776.85	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,812.27	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,849.18	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,711.84	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,745.50	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0008 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,780.92	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0009 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,817.83	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0010 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,564.82	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0011 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,598.48	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0012 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,633.90	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0013 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,670.81	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0014 EA 16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,469.05	156.13
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0015 EA 16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,502.71	172.99
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0016	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,538.13	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0017	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,575.04	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0018	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,702.03	156.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0019	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,735.69	172.99
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0020	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,771.11	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0021	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,808.02	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0022	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,187.78	156.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0023	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,221.44	172.99
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0024	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,256.86	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0025	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,293.77	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,256.77	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,290.43	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,325.85	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	785.69	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	819.35	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	854.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,188.16	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,221.82	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,257.24	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	



Plumbing	22
Plumbing Piping	22 10
Facility Storm Drainage	22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,664.77	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,698.43	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,733.85	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,404.74	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,438.40	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,473.82	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,445.24	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,478.90	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,514.32	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	

22 14 26 19 Facility Trench Drains (22 14 26)

22 14 26 19-0001			Trench Drain (22 14 26 19) Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,082.80	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,116.46	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,151.88	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	684.88	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	718.54	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	753.96	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,028.58	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,062.24	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,097.66	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	925.99	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	528.07	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	871.77	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,678.37	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,712.03	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,747.45	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,186.00	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,219.66	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,255.08	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,611.03	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0021	EA			12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,644.69	172.99
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022	EA			12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,680.11	190.75
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023	EA			12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,416.00	156.13
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0024	EA			12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,449.66	172.99
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025	EA			12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,485.08	190.75
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026	EA			12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,521.54	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027	EA			12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,029.17	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028	EA			12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,454.20	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0029	EA			12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,259.17	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

22 14 29 Sump Pumps (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002	EA			1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	5,505.82	376.23
				<i>For Explosion Proof Motor, Add</i>	250.06	
22 14 29 13-0003	EA			1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	5,868.32	455.36
				<i>For Explosion Proof Motor, Add</i>	277.99	
22 14 29 13-0004	EA			2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	6,722.05	540.99
				<i>For Explosion Proof Motor, Add</i>	359.13	
22 14 29 13-0005	EA			3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	7,243.02	665.53
				<i>For Explosion Proof Motor, Add</i>	407.01	
22 14 29 13-0006	EA			5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	7,665.64	721.32
				<i>For Explosion Proof Motor, Add</i>	594.55	
22 14 29 13-0007	EA			10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	9,098.71	865.32
				<i>For Explosion Proof Motor, Add</i>	674.36	
22 14 29 13-0008	EA			15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	10,546.26	896.24
				<i>For Explosion Proof Motor, Add</i>	1,105.31	
22 14 29 13-0009	EA			20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	12,509.70	996.78
				<i>For Explosion Proof Motor, Add</i>	1,467.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0010	EA		30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	13,563.46 1,902.04	1,162.50
22 14 29 13-0011	EA		50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	18,104.03 2,477.98	1,395.49
22 14 29 13-0012	EA		60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	24,835.28 3,927.79	1,549.99
22 14 29 13-0013			Extra Column Assemblies <small>(22 14 29 13)</small>		
22 14 29 13-0014	EA		1-1/2" Diameter x 5' Long Extra Column Assembly	815.72	
22 14 29 13-0015	EA		2" Diameter x 5' Long Extra Column Assembly	892.59	
22 14 29 13-0016	EA		2-1/2" Diameter x 5' Long Extra Column Assembly	976.70	
22 14 29 13-0017	EA		3" Diameter x 5' Long Extra Column Assembly	1,172.72	
22 14 29 13-0018	EA		4" Diameter x 5' Long Extra Column Assembly	1,310.79	
22 14 29 13-0019	EA		5" Diameter x 5' Long Extra Column Assembly	1,334.66	
22 14 29 13-0020	EA		6" Diameter x 5' Long Extra Column Assembly	1,498.29	
22 14 29 13-0021	EA		8" Diameter x 5' Long Extra Column Assembly	1,639.48	
22 14 29 13-0022			Support Plate <small>(22 14 29 13)</small>		
22 14 29 13-0023	EA		24" Steel Support Plate, Round Or Square	607.85	51.87
22 14 29 13-0024	EA		30" Steel Support Plate, Round Or Square	673.31	58.35
22 14 29 13-0025	EA		36" Steel Support Plate, Round Or Square	931.75	77.81
22 14 29 13-0026	EA		40" Steel Support Plate, Round Or Square	1,334.36	90.78
22 14 29 13-0027	EA		42" Steel Support Plate, Round Or Square	1,427.73	94.02
22 14 29 13-0028	EA		48" Steel Support Plate, Round Or Square	1,524.19	97.26
22 14 29 13-0029	EA		54" Steel Support Plate, Round Or Square	1,936.03	116.71
22 14 29 13-0030	EA		60" Steel Support Plate, Round Or Square	2,599.35	129.67
22 14 29 13-0031	EA		72" Steel Support Plate, Round Or Square	3,463.33	162.10
22 14 29 13-0032	EA		84" Steel Support Plate, Round Or Square	4,167.48	178.30
22 14 29 16			Submersible Sump Pumps <small>(22 14 29)</small>		
22 14 29 16-0001			Submersible Sump Pump With Vortex Impeller <small>(22 14 29 16)</small>		
22 14 29 16-0002			Submersible Sump Pump With Cast Iron Vortex Impeller <small>(22 14 29 16-0001)</small>		
22 14 29 16-0003	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	459.21	84.51
22 14 29 16-0004	EA		1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	497.89	84.51
22 14 29 16-0005	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	730.42	89.43
22 14 29 16-0006	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	791.62	89.43
22 14 29 16-0007			Submersible Sump Pump With Bronze Vortex Impeller <small>(22 14 29 16-0001)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0008	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,157.11	89.43
22 14 29 16-0009	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,249.33	89.43
22 14 29 16-0010	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,318.29	98.59
22 14 29 16-0011	EA		1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,416.89	98.59
22 14 29 16-0012	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,471.89	112.67
22 14 29 16-0013	EA		1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,568.78	112.67
22 14 29 16-0014	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,593.67	133.80
22 14 29 16-0015	EA		2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,677.82	133.80
22 14 29 16-0016			Submersible Sump Pump With Semi-Open Impeller <small>(22 14 29 16)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0017	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	974.24	84.51
22 14 29 16-0018	EA		1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,002.73	84.51
22 14 29 16-0019	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,233.19	89.43
22 14 29 16-0020	EA		1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,253.21	89.43
22 14 29 16-0021	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0022	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0023	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,573.20	98.59



Plumbing	22
Plumbing Piping	22 10
Facility Storm Drainage	22 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,573.20	98.59
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,089.13	133.80
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,054.48	133.80
22 14 29 19 Sump-Pump Basins and Pits (22 14 29)		
See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15)		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	63.14	19.72
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	69.84	23.94
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	734.41	112.34
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	827.95	115.47
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,037.97	118.59
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,200.54	124.82
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,336.51	140.43
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,485.61	159.78
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,091.93	202.84
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,358.27	237.17
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,561.05	253.39
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,786.78	280.85
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,136.06	312.06
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,488.26	343.27
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,682.68	380.71
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,272.74	405.68
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,107.77	421.28
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,996.68	436.89
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,644.73	452.49
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	7,221.15	468.09
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	8,056.80	499.30
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	9,439.36	624.12
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	11,914.08	748.94
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	13,296.66	873.77
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	15,627.22	998.60
22 15 13 00-0029 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator.....	648.69	45.09
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator.....	865.81	52.83
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator.....	1,010.94	59.88
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator.....	1,266.53	70.45
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator.....	1,505.86	84.53
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator.....	3,038.92	176.11
22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	128.78	37.44
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	178.49	49.93
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	291.99	62.41
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	374.79	93.62
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	511.63	109.22
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	542.83	124.82
22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0044 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	472.23	112.34
22 15 13 00-0045 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	590.81	149.79
22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0047 EA 5 SCFM Heatless Desiccant Air Dryer.....	2,471.17	112.34
22 15 13 00-0048 EA 10 SCFM Heatless Desiccant Air Dryer.....	2,965.45	124.82
22 15 13 00-0049 EA 15 SCFM Heatless Desiccant Air Dryer.....	3,000.62	137.31
22 15 13 00-0050 EA 20 SCFM Heatless Desiccant Air Dryer.....	3,426.94	156.03
22 15 13 00-0051 EA 30 SCFM Heatless Desiccant Air Dryer.....	4,705.22	187.23

22	Plumbing
22 10	Plumbing Piping
22 15	General Service Compressed-Air Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0052 EA 50 SCFM Heatless Desiccant Air Dryer	4,682.96	249.64
22 15 13 00-0053 EA 85 SCFM Heatless Desiccant Air Dryer	6,277.09	312.06
22 15 13 00-0054 EA 100 SCFM Heatless Desiccant Air Dryer	6,685.58	374.48
22 15 13 00-0055 EA 125 SCFM Heatless Desiccant Air Dryer	7,658.50	436.89
22 15 13 00-0056 EA 175 SCFM Heatless Desiccant Air Dryer	8,792.91	499.30
22 15 13 00-0057 EA 200 SCFM Heatless Desiccant Air Dryer	9,463.08	561.71
22 15 13 00-0058 EA 300 SCFM Heatless Desiccant Air Dryer	11,536.29	624.12
22 15 13 00-0059 EA 400 SCFM Heatless Desiccant Air Dryer	12,846.05	748.94
22 15 13 00-0060 EA 500 SCFM Heatless Desiccant Air Dryer	14,851.88	873.77
22 15 13 00-0061 EA 600 SCFM Heatless Desiccant Air Dryer	17,131.48	998.60
22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0063 EA 20 SCFM Air-Cooled Aftercooler	651.17	78.01
22 15 13 00-0064 EA 35 SCFM Air-Cooled Aftercooler	873.11	93.62
22 15 13 00-0065 EA 43 SCFM Air-Cooled Aftercooler	962.56	109.22
22 15 13 00-0066 EA 70 SCFM Air-Cooled Aftercooler	1,171.41	124.82
22 15 13 00-0067 EA 125 SCFM Air-Cooled Aftercooler	1,613.26	140.43
22 15 13 00-0068 EA 185 SCFM Air-Cooled Aftercooler	1,810.49	156.03
22 15 13 00-0069 EA 260 SCFM Air-Cooled Aftercooler	3,441.82	187.23
22 15 13 00-0070 EA 365 SCFM Air-Cooled Aftercooler	3,610.82	218.44
22 15 13 00-0071 EA 560 SCFM Air-Cooled Aftercooler	3,778.66	249.64
22 15 13 00-0072 EA 650 SCFM Air-Cooled Aftercooler	4,424.72	280.85
22 15 13 00-0073 EA 750 SCFM Air-Cooled Aftercooler	4,840.11	312.06
22 15 13 00-0074 EA 900 SCFM Air-Cooled Aftercooler	5,542.08	343.27
22 15 13 00-0075 EA 1,100 SCFM Air-Cooled Aftercooler	7,078.17	374.48
22 15 13 00-0076 EA 1,460 SCFM Air-Cooled Aftercooler	8,083.61	405.68
22 15 13 00-0077 EA 1,800 SCFM Air-Cooled Aftercooler	8,357.18	436.89
22 15 13 00-0078 EA 2,500 SCFM Air-Cooled Aftercooler	8,961.31	468.09
22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0081 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	237.20	45.79
22 15 13 00-0082 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	277.97	45.79
22 15 13 00-0083 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating	305.17	52.83
22 15 13 00-0084 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	351.24	60.58
22 15 13 00-0085 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	407.62	66.92
22 15 13 00-0086 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating	464.90	81.01
22 15 13 00-0087 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating	545.32	88.05
22 15 13 00-0088 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating	607.43	105.67
22 15 13 00-0089 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	782.71	140.89
22 15 13 00-0090 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	893.66	158.50
22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0092 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating	283.81	45.79
22 15 13 00-0093 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating	309.52	52.83
22 15 13 00-0094 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating	355.32	60.58
22 15 13 00-0095 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating	415.77	59.88
22 15 13 00-0096 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	474.22	81.01
22 15 13 00-0097 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	535.79	88.05
22 15 13 00-0098 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating	617.91	105.67
22 15 13 00-0099 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	800.19	140.89
22 15 13 00-0100 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	916.95	158.50
22 15 13 00-0101 Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0102 Horizontal Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0103 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME	403.59	99.86
22 15 13 00-0104 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME	603.10	109.22
22 15 13 00-0105 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0106 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME	723.49	124.82
22 15 13 00-0107 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME	948.38	168.51
22 15 13 00-0108 EA 80 Gallon Horizontal Compressed Air Storage Tank, ASME	1,133.44	187.23
22 15 13 00-0109 EA 120 Gallon Horizontal Compressed Air Storage Tank, ASME	1,656.01	218.44
22 15 13 00-0110 EA 200 Gallon Horizontal Compressed Air Storage Tank, ASME	2,415.61	249.64
22 15 13 00-0111 EA 240 Gallon Horizontal Compressed Air Storage Tank, ASME	2,683.87	265.25
22 15 13 00-0112 EA 325 Gallon Horizontal Compressed Air Storage Tank, ASME	3,807.23	280.85
22 15 13 00-0113 EA 400 Gallon Horizontal Compressed Air Storage Tank, ASME	4,986.04	327.67
22 15 13 00-0114 EA 660 Gallon Horizontal Compressed Air Storage Tank, ASME	7,114.95	390.08
22 15 13 00-0115 Vertical Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0116 EA 10 Gallon Vertical Compressed Air Storage Tank, ASME	560.34	99.86
22 15 13 00-0117 EA 15 Gallon Vertical Compressed Air Storage Tank, ASME	591.08	109.22
22 15 13 00-0118 EA 20 Gallon Vertical Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0119 EA 30 Gallon Vertical Compressed Air Storage Tank, ASME	747.29	124.82
22 15 13 00-0120 EA 60 Gallon Vertical Compressed Air Storage Tank, ASME	1,019.78	168.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0121 EA 80 Gallon Vertical Compressed Air Storage Tank, ASME	1,167.83	187.23
22 15 13 00-0122 EA 120 Gallon Vertical Compressed Air Storage Tank, ASME	1,581.24	218.44
22 15 13 00-0123 EA 200 Gallon Vertical Compressed Air Storage Tank, ASME	2,261.51	249.64
22 15 13 00-0124 EA 240 Gallon Vertical Compressed Air Storage Tank, ASME	2,487.44	265.25
22 15 13 00-0125 EA 325 Gallon Vertical Compressed Air Storage Tank, ASME	3,326.43	280.85
22 15 13 00-0126 EA 400 Gallon Vertical Compressed Air Storage Tank, ASME	4,239.84	327.67
22 15 13 00-0127 EA 500 Gallon Vertical Compressed Air Storage Tank, ASME	5,480.26	358.87
22 15 13 00-0128 EA 660 Gallon Vertical Compressed Air Storage Tank, ASME	8,973.27	405.68
22 15 19 General Service Packaged Air Compressors and Receivers (22 15)		
Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)		
22 15 19 13-0001 Single Stage Compressor (22 15 19 13)		
Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.		
22 15 19 13-0002 EA 1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	2,871.10	442.88
22 15 19 13-0003 EA 3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,016.97	511.15
22 15 19 13-0004 EA 1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,449.98	603.65
22 15 19 13-0005 EA 2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,922.80	666.07
22 15 19 13-0006 EA 3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,758.91	703.51
22 15 19 13-0007 EA 3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,076.47	728.48
22 15 19 13-0008 EA 5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,705.78	832.57
22 15 19 13-0009 EA 5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	6,116.27	882.51
22 15 19 13-0010 EA 7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	7,317.15	999.09
22 15 19 13-0011 Two Stage Compressor (22 15 19 13)		
Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.		
22 15 19 13-0012 EA 1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	5,465.38	778.40
22 15 19 13-0013 EA 2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	5,895.72	915.83
22 15 19 13-0014 EA 3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	6,177.41	999.09
22 15 19 13-0015 EA 5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	7,121.64	1,332.12
22 15 19 13-0016 EA 5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	7,640.80	1,332.12
22 15 19 13-0017 EA 7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	8,286.93	1,665.16
22 15 19 13-0018 EA 7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	8,757.80	1,665.16
22 15 19 13-0019 EA 10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	11,209.85	2,059.60
22 15 19 13-0020 EA 10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	12,056.76	2,122.01
22 15 19 13-0021 EA 15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	13,017.18	2,480.00
22 15 19 13-0022 EA 20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	19,293.54	2,807.30
22 15 19 13-0023 EA 25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	20,780.97	3,172.15
22 15 19 13-0024 EA 30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	23,151.30	3,505.94
22 15 19 13-0025 EA 30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	25,195.91	3,842.34
22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)		
22 15 19 19-0001 Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)		
Note: Oil flooded.		
22 15 19 19-0002 EA 3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	9,268.00	1,124.30
22 15 19 19-0003 EA 5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	10,423.16	1,499.06
22 15 19 19-0004 EA 7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	13,348.30	1,879.47
22 15 19 19-0005 EA 10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	15,528.97	2,395.12
22 15 19 19-0006 EA 15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	17,775.53	2,817.79
22 15 19 19-0007 EA 20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	21,495.10	3,170.01
22 15 19 19-0008 EA 25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	23,579.92	3,522.24
22 15 19 19-0009 EA 30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	28,246.08	3,944.90
22 15 19 19-0010 EA 40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	31,013.38	4,226.69
22 15 19 19-0011 EA 50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	34,751.96	4,554.96
22 15 19 19-0012 EA 60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	44,848.42	4,931.14
22 15 19 19-0013 EA 75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	49,680.29	5,212.91
22 15 19 19-0014 EA 100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	78,885.48	5,635.59
22 15 19 19-0015 EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	98,120.10	6,093.47
22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	113,812.77	6,558.41
22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	147,601.70	7,044.48
22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	167,540.90	7,495.33
22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19)		
Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	11,599.12	1,499.06
22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,294.55	1,499.06

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	13,901.26	1,879.47
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	14,661.89	1,879.47
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	15,833.22	2,395.12
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	16,637.31	2,395.12
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,026.66	2,817.79
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,895.95	2,817.79
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	30,651.65	3,170.01
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	33,062.44	3,522.24
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	35,255.95	3,944.90

22 30 Plumbing Equipment ⁽²²⁾**22 31 Domestic Water Softeners** ^(22 30)**22 31 16 Commercial Domestic Water Softeners** ^(22 31)22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) ^(22 31 16)22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0001)22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11)	4,352.80	356.61
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11)	4,549.86	372.81
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11)	4,906.23	389.02
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11)	5,632.58	405.24
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)	5,999.57	421.45

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11)	6,469.34	389.02
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11)	6,802.70	405.24
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)	7,171.46	421.45
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)	8,499.69	437.65
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)	9,436.69	453.86
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)	11,460.63	470.07

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11)	9,758.98	405.24
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11)	10,115.35	421.45
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11)	11,447.12	437.65
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11)	12,384.12	453.86
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11)	14,517.81	470.07
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11)	19,101.49	486.29
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	22,322.10	502.49



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Softeners	22 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11)	23,411.45	470.07
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11)	27,026.81	486.29
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11)	30,204.93	502.49
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11)	37,989.18	518.70
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11)	42,050.64	534.91
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21)	15,997.13	607.85
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21)	16,706.06	632.16
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21)	19,001.10	656.48
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21)	20,761.55	680.80
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21)	25,299.47	705.10
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21)	33,445.14	729.42
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21)	39,328.43	753.74
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21)	42,938.05	705.10
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21)	49,299.32	729.42
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21)	55,379.11	753.74
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21)	70,402.12	778.05
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21)	78,581.41	802.37
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	5,746.77	534.91
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	6,124.66	559.23
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	6,670.72	583.54
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	7,972.68	607.85
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	8,803.75	632.16
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	11,083.90	583.54
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	11,684.85	607.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	12,569.03	632.16
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	14,363.10	656.48
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	16,183.74	680.80
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	20,210.06	705.10

22 32 Domestic Water Filtration Equipment (22 30)

22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)

22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)

22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)

22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1)	2,272.39	228.94
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1)	2,323.54	246.56
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2)	2,473.82	264.17
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3)	2,733.85	281.78
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4)	2,820.42	299.39
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4)	3,397.33	317.00
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3)	9,284.93	334.61
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4)	10,784.13	352.23
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3)	13,655.27	369.83
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4)	15,136.77	387.45

22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)

22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50)	12.27	2.82
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20)	12.27	2.82
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10)	12.27	2.82
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5)	10.50	2.82
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1)	12.71	2.82
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50)	12.71	2.82
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20)	13.60	2.82
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5)	16.69	2.82
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1)	13.60	2.82
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50)	15.81	2.82
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20)	15.81	2.82
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5)	15.81	2.82
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1)	17.14	2.82
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50)	22.00	2.82
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20)	20.23	2.82
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5)	20.23	2.82
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1)	22.00	2.82

22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50)	20.68	2.82
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20)	20.68	2.82
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5)	21.12	2.82
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1)	22.45	2.82
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB)	33.07	2.82
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50)	31.74	2.82
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20)	31.74	2.82
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5)	31.74	2.82
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1)	41.48	2.82
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB)	58.29	2.82
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50)	49.00	2.82
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20)	67.59	2.82
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5)	70.24	2.82
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1)	79.09	2.82

22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Filtration Equipment	22 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,804.33	211.34
22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)		
22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	557.06	2.82
22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	116.71	2.82
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	115.83	2.82
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	115.83	2.82
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	132.64	2.82
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	306.57	2.82
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	287.98	2.82
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	313.65	2.82
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	328.70	2.82
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	349.94	2.82
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	379.15	2.82
22 33 Electric Domestic Water Heaters (22 30)		
22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)		
22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	383.13	70.43
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	538.36	70.43
22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	520.72	105.63
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	712.64	140.84
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,211.58	246.48
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,784.72	281.68
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	983.00	140.84
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,361.68	211.27
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,548.47	281.68
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,597.11	281.68
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,643.06	281.68
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,710.62	281.68
22 33 30 Residential, Electric Domestic Water Heaters (22 33)		
22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)		
22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 13)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	800.33	221.83
22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	947.40	235.92
22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,087.45	246.48
22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)		
22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	1,145.57	246.48
22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	1,098.55	253.52
22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	1,091.83	260.56
22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,192.89	264.09
22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	1,624.30	271.12
22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	1,660.28	281.68
22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	2,135.71	299.29
22 33 30 16-0009 Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,212.31	246.48
22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,172.88	253.52
22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,234.53	260.56
22 33 30 16-0013 High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) (22 33 30 16)		
Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,250.84	253.52
22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,350.47	260.56
22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,613.82	271.12
22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,741.96	281.68
22 33 30 16-0018 Water Heater Accessories (22 33 30 16)		
22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	90.67	14.09
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	104.62	14.09
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	190.77	14.09
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	251.40	14.09
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	67.49	10.56
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	73.07	10.56
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	76.80	10.56
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	89.83	10.56
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	39.47	10.56
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	42.45	10.56
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	46.64	10.56
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	52.02	10.56
22 33 33 Light-Commercial Electric Domestic Water Heaters (22 33)		
22 33 33 00-0001 Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)		
Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	4,905.91	246.48
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	5,091.72	246.48
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	5,293.02	246.48
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	5,363.44	281.68
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	5,595.71	281.68
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	5,967.33	281.68
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	6,215.08	281.68
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	6,416.38	281.68
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	6,633.16	281.68
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	5,827.97	281.68
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	6,044.75	281.68
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	6,292.50	281.68
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	6,493.80	281.68
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	6,710.58	281.68
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	8,305.47	281.68
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	6,386.89	352.11
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	6,588.19	352.11
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	6,835.94	352.11
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	7,052.72	352.11
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	8,663.09	352.11
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	9,406.34	352.11
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36).....	10,134.10	352.11
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9).....	7,394.86	422.53
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12).....	7,596.16	422.53
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15).....	7,797.46	422.53
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18).....	8,014.24	422.53
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24).....	9,671.06	422.53
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30).....	10,414.31	422.53
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36).....	11,142.08	422.53
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45).....	12,458.25	422.53
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54).....	13,046.65	422.53
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60).....	15,090.58	422.53
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75).....	17,722.92	422.53
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90).....	22,151.45	422.53
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9).....	8,388.83	563.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	8,621.10	563.37
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	8,837.88	563.37
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	9,023.69	563.37
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	10,665.03	563.37
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	11,408.28	563.37
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	12,120.56	563.37
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	13,467.70	563.37
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	14,040.62	563.37
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	16,100.04	563.37
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	18,747.86	563.37
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	23,160.90	563.37
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	9,381.31	633.79
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	9,598.09	633.79
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	9,783.91	633.79
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	11,440.73	633.79
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	12,106.56	633.79
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	12,880.78	633.79
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	14,227.91	633.79
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	14,816.32	633.79
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	16,751.86	633.79
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	19,508.08	633.79
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	23,921.12	633.79
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	10,544.12	704.21
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	10,791.87	704.21
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	12,402.24	704.21
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	13,145.49	704.21
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	13,873.25	704.21
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	15,189.42	704.21
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	15,793.31	704.21
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	17,821.76	704.21
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	20,454.10	704.21
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	24,898.11	704.21
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	11,383.25	845.06
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	11,600.03	845.06
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	13,210.40	845.06
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	13,922.68	845.06
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	14,681.41	845.06
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	15,997.58	845.06
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	16,555.02	845.06
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	18,645.41	845.06
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	21,293.23	845.06
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	25,690.79	845.06
22 33 33 00-0079	Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) <small>(22 33 33)</small>	
Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,452.90	246.48
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,550.45	246.48
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,693.65	281.68
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	2,808.52	281.68
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,259.05	352.11
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	3,632.17	422.53
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,423.22	633.79
22 33 33 00-0087	Water Heater Accessories <small>(22 33 33)</small>	
22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap	45.26	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap	64.79	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		
22 33 33 00-0090	Removal And Reinstallation Of Water Heater <small>(22 33 33)</small>	
Note: Includes storage and cleaning.		
22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	469.48	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,408.43	
22 34	Fuel-Fired Domestic Water Heaters <small>(22 30)</small>	
22 34 13	Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34)</small>	
22 34 13 00-0001	Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13)</small>	
22 34 13 00-0002	Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small>	
Note: Includes vent connection. Excludes vent.		
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,546.64	281.68
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,656.70	285.20
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVEN)	1,801.89	292.25

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN).....	2,068.67	299.29
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN).....	2,471.11	316.89
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN).....	2,517.93	316.89
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN).....	1,649.65	281.68
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN).....	2,471.11	316.89
22 34 30 Residential Gas Domestic Water Heaters (22 34)		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30).....	1,211.07	271.12
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40).....	1,199.88	278.16
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50).....	1,521.66	285.20
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65).....	1,632.43	292.25
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75).....	1,765.36	299.29
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100).....	2,500.75	316.89
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40).....	2,024.33	278.16
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50).....	2,279.74	285.20
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75).....	2,896.20	292.25
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40).....	1,861.34	278.16
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50).....	1,934.89	285.20
22 34 36 Commercial Gas Domestic Water Heaters (22 34)		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36)		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13) Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120).....	5,489.87	422.53
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154).....	5,888.14	492.95
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180).....	7,254.49	563.37
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199).....	6,325.56	563.37
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200).....	7,216.55	563.37
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A).....	9,536.40	619.71
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250).....	7,047.27	633.79
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....	10,291.84	697.17
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251).....	7,150.22	633.79
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	9,838.39	697.17
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275).....	7,971.14	774.64
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	10,822.32	852.10
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305).....	8,902.57	774.64
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	10,883.59	852.10
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365).....	8,675.80	845.06
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	12,006.71	929.57
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400).....	10,869.50	845.06
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	14,114.67	929.57
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500).....	14,049.73	915.48
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	7,040.12	492.95
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	8,413.28	542.25



Plumbing	22
Plumbing Equipment	22 30
Fuel-Fired Domestic Water Heaters	22 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	7,352.53	563.37
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	8,776.55	619.71
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	1,929.71	352.11
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	2,089.03	352.11
22 34 36 13-0027 Removal And Reinstallation Of Water Heater <small>(22 34 36 13)</small>		
Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	640.19	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon	1,692.82	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) <small>(22 34 36 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	4,521.68	422.53
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	6,347.76	422.53
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	7,726.43	492.95
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	8,075.61	563.37
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	8,112.38	563.37
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	8,283.96	563.37
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	9,695.72	619.71
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	9,147.88	633.79
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	11,198.76	697.17
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	9,662.42	774.64
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	11,778.25	852.10
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310)	9,858.51	774.64
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	11,900.81	852.10
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366)	11,041.08	845.06
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	12,938.13	929.57
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400)	13,259.35	845.06
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	15,266.70	929.57
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) <small>(22 34 36 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	3,565.74	422.53
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	4,693.26	422.53
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	5,624.68	422.53
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	8,013.25	464.78
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	8,216.65	492.95
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	10,312.90	542.25
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	8,382.00	563.37
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	10,663.92	619.71
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	9,674.87	633.79
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	11,725.75	697.17
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	15,307.86	852.10
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	16,112.33	929.57
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	18,497.78	1,007.02
22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters <small>(22 34 36)</small>		

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) <small>(22 34 36 23)</small> Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	77,442.85	1,746.31
22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	93,542.28	1,855.46
22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	113,553.07	1,964.60
22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	135,647.34	2,073.74
22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	142,184.14	2,182.89
22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) <small>(22 34 36 23)</small>		
22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	10,064.34	1,037.87
22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	10,939.88	1,167.60
22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	12,704.49	1,427.07
22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	18,254.71	1,556.81
22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	20,129.35	1,816.27
22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	23,024.54	2,075.74
22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	25,456.00	2,335.21
22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	30,336.50	2,594.68
22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	31,494.69	2,724.40
22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	33,753.00	2,854.14
22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	41,159.61	1,971.95
22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	58,106.06	2,179.52
22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	63,046.41	2,283.31
22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	68,287.10	2,490.88
22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	36,512.49	1,971.95
22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	40,336.84	2,179.52
22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	44,091.86	2,283.31
22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	47,905.54	2,490.88
22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	9,399.18	934.08
22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	10,341.06	1,037.87
22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	12,146.61	1,245.44
22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,104.72	1,297.34
22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	18,851.64	1,556.81
22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	23,246.44	1,868.17
22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	26,416.79	1,971.95
22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	29,277.94	2,127.64
22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	31,954.27	2,231.42
22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	34,289.38	2,283.31
22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	30,662.24	1,556.81
22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	33,765.09	1,868.17
22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	45,138.56	2,127.64
22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	46,503.39	2,231.42
22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	48,678.56	2,283.31
22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	38,892.02	1,868.17
22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	47,040.06	2,127.64
22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	49,920.75	2,283.31
22 34 46 Oil-Fired Domestic Water Heaters <small>(22 34)</small>		



Plumbing	22	22
Plumbing Equipment	22 30	
Fuel-Fired Domestic Water Heaters	22 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)		
22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E)	1,906.35	216.90
22 34 46 11-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E)	1,882.39	216.90
22 34 46 11-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES)	1,959.37	216.90
22 34 46 11-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E)	2,065.18	222.53
22 34 46 11-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES)	2,594.87	228.16
22 34 46 11-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E)	2,214.23	228.16
22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E)	3,081.74	338.02
22 34 46 11-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E)	3,582.89	338.02
22 34 46 11-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E)	3,602.17	338.02
22 34 46 11-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E)	5,166.01	450.69
22 34 46 11-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E)	7,052.80	563.37
22 34 46 11-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E)	8,822.83	619.71
22 35 Domestic Water Heat Exchangers (22 35)		
22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)		
22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)		
22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)		
22 35 23 13-0002 Constant Flow (22 35 23 13-0001)		
22 35 23 13-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	7,088.76	704.21
22 35 23 13-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	8,849.46	862.94
22 35 23 13-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	11,345.62	1,128.58
22 35 23 13-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	15,364.20	1,571.95
22 35 23 13-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	22,741.00	2,588.98
22 35 23 13-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	24,813.11	2,934.18
22 35 23 13-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	32,440.23	3,385.58
22 35 23 13-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	39,013.96	4,001.21
22 35 23 13-0011 Variable Flow (22 35 23 13-0001)		
22 35 23 13-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	10,760.41	1,373.22
22 35 23 13-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	12,226.99	1,676.74
22 35 23 13-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	15,604.84	2,168.13
22 35 23 13-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	20,511.76	3,025.02
22 35 23 13-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	30,751.44	5,059.08
22 35 23 13-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	37,272.14	5,571.33
22 35 23 13-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	43,192.80	6,520.47
22 35 23 13-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	54,574.65	7,790.02

END OF SECTION 22

22 Plumbing

22 30 Plumbing Equipment

22 35 Domestic Water Heat Exchangers



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	650.31
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	928.64
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	974.52
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,073.82
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,944.42
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	872.91
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,252.54
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,321.97
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,471.79
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,672.62
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,025.90
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,499.50
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,463.70
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,387.99
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	10,113.35

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping and Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	35.21
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	42.26
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	49.30
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	56.34
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	70.43
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System.....	14.09
23 01 20 91-0008	EA	Lock Out/Tag Out Tag.....	3.98

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	354.77
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23 01 20 91-0011 Pipe Freezing ^(23 01 20 91)

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	834.99
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	413.13
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	1,012.34
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	475.73
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,408.47
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	538.52
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,607.68
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	638.28
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,379.27
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	735.55
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	4,992.39
		Note: Includes freezing on each side of valve or fitting.	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	985.82	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	6,641.32	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,466.44	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	9,182.11	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,018.15	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	11,837.26	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,640.51	
23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91) Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing	2.32	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing	3.17	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing	4.87	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing	6.69	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing	8.21	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing	10.38	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing	13.68	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing	16.42	
23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	283.38	
23 01 20 91-0041 Purge Liquid Systems (23 01 20 91) Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System	445.21	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System	556.51	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System	794.34	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System	951.85	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,006.23	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,921.17	
23 01 20 91-0048 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	463.58	
23 01 20 91-0049 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	662.07	
23 01 20 91-0050 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	793.29	
23 01 20 91-0051 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	838.63	
23 01 20 91-0052 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,601.02	
23 01 20 91-0053 EA Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	617.07	
23 01 20 91-0054 EA >100 To 250', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	880.56	
23 01 20 91-0055 EA >250 To 500', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,048.29	
23 01 20 91-0056 EA >500 To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,114.64	
23 01 20 91-0057 EA >1,000 To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	2,147.71	
23 01 20 91-0058 EA Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System	760.74	
23 01 20 91-0059 EA >100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System	1,087.11	
23 01 20 91-0060 EA >250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System	2,992.36	
23 01 20 91-0061 EA >1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System	4,748.74	
23 01 20 91-0062 Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0063 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0064 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	2.87	
23 01 20 91-0065 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	4.77	
23 01 20 91-0066 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	6.68	
23 01 20 91-0067 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	8.64	
23 01 20 91-0068 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	12.00	
23 01 20 91-0069 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0070 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	3.07	
23 01 20 91-0071 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	5.01	
23 01 20 91-0072 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	7.02	
23 01 20 91-0073 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	9.15	
23 01 20 91-0074 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	12.68	
23 01 20 91-0075 Drewspere 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0076 LF Up To 1", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	3.12	
23 01 20 91-0077 LF >1" To 2", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	5.11	
23 01 20 91-0078 LF >2" To 3", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	7.16	
23 01 20 91-0079 LF >3" To 4", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	9.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0080 LF >4" To 6", Drewspurse 4945/4395 Pipe Disinfection/Flush/Testing.....	12.94	
23 01 20 91-0081 Add-A-Valve Emergency Shut Off Device <small>(23 01 20 91)</small>		
23 01 20 91-0082 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	335.25	
23 01 20 91-0083 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	421.09	
23 01 20 91-0084 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	578.95	
23 01 20 91-0085 EA 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	876.36	
23 01 20 91-0086 EA 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,078.97	
23 01 20 91-0087 EA 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,616.97	
23 01 30 Operation and Maintenance of HVAC Air Distribution <small>(23 01)</small>		
23 01 30 51 HVAC Air-Distribution System Cleaning <small>(23 01 30)</small>		
23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment <small>(23 01 30 51)</small>		
23 01 30 51-0002 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.33	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.08		
23 01 30 51-0003 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.42	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.36		
23 01 30 51-0004 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.82		
23 01 30 51-0005 LF >8 SF Cross Section, Clean Supply/Return Ductwork	10.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 2.57		
23 01 30 51-0006 SF Clean Duct Dampers	14.60	
23 01 30 51-0007 SF Clean Duct Fire Dampers	29.19	
23 01 30 51-0008 SF Clean Louver	11.68	
23 01 30 51-0009 EA Clean Turning Vane Set	35.04	
23 01 30 51-0010 EA Clean Grille/Diffuser/Register	35.04	
Note: Includes removal and reinstallation.		
23 01 30 51-0011 LF Clean Linear Diffuser	8.76	
Note: Includes removal and reinstallation.		
23 01 30 51-0012 EA Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	104.26	
<i>For Stainless Steel, Add</i> 51.04		
23 01 30 51-0013 EA Clean Variable Air Volume (VAV) Unit.....	105.11	
23 01 30 51-0014 EA Clean Fan Powered Induction Unit (PIU) Unit.....	140.15	
23 01 30 51-0015 EA Clean Fan Coil Unit (FCU).....	140.15	
23 01 30 51-0016 EA Clean Packaged Terminal Air Conditioning Unit.....	140.15	
23 01 30 51-0017 EA Clean Supply Or Return Fan.....	280.31	
23 01 30 51-0018 EA Clean Exhaust Fan	245.28	
23 01 30 51-0019 EA Clean Duct Coil.....	210.24	
23 01 30 51-0020 SF Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.01	
Note: Excluding fan and coils.		
23 01 30 51-0021 EA Clean Air Handling Unit Fan	280.31	
23 01 30 51-0022 EA Clean Air Handling Unit Coil	420.47	
23 01 30 51-0023 SF Clean Equipment Surfaces, Rust Reform And Prime	3.54	
23 01 30 51-0024 SF Clean Interior Equipment Surfaces, Rust Reform And Prime	4.23	
23 01 30 51-0025 SF High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.60	
23 01 30 51-0026 EA Cleaning Of Ductwork Minimum Set-up Charge	946.85	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 01 30 51-0027 SF Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning.....	0.61	
23 01 30 61 HVAC Air-Distribution Duct Repair <small>(23 01 30)</small>		
23 01 30 61-0001 Repair And Seal Ductwork <small>(23 01 30 61)</small>		
Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.		
23 01 30 61-0002 SF Repair And Sealing Of Ductwork	2.36	
Note: Clean, apply sealant and tape		
23 01 50 Operation and Maintenance of Central Heating Equipment <small>(23 01)</small>		
23 01 50 61 Central Heating Equipment Repair <small>(23 01 50)</small>		
23 01 50 61-0001 Boiler Repairs <small>(23 01 50 61)</small>		
23 01 50 61-0002 Setup And Maintenance <small>(23 01 50 61-0001)</small>		
23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance	2,873.91	
Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance.....	3,063.94	
Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.		
For Burner Seals, Add	687.39	
Note: Used when burner must be removed from door for maintenance.		
23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance	3,831.89	
Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.		
23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance.....	1,915.94	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance	3,831.89	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0008 EA Removal And Replacement Of Handhole	119.75	
23 01 50 61-0009 EA Removal And Replacement Of Manhole.....	359.24	
23 01 50 61-0010 SF Sheet Metal Jacket Patch	13.15	
23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube.....	287.39	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	359.25	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....	502.93	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination	9.67	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination	11.22	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination	12.79	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination	18.14	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination	21.19	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination	26.97	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	35.92	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	53.88	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	71.84	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	89.81	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	125.74	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	143.70	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	179.62	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	215.54	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	251.46	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	287.39	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	345.32	
23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,849.35	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	1,866.16	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,531.49	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	5,073.74	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,562.37	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....	4,465.76	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler	8,011.57	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	5,954.22	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....	6,856.40	
23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold	133.12	
Note: Includes support, linkages and removal of existing.		
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold.....	1,740.26	
Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.		
23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)		
Note: Includes mounting plate, mechanical and electrical labor for installation of burners.		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....	9,315.19	1,382.41
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	13,307.69	1,711.53
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	15,743.26	2,073.47
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	18,469.35	2,231.15
23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)		
Note: 3 LB chemical per 50 gallon system water.		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda	1.36	
Note: Includes disposal after treatment.		
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate.....	2.04	
Note: Includes disposal after treatment.		
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	127.21	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 61 Central Cooling Equipment Repair (23 01 60)

23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)

23 01 60 61-0002	EA	Removal And Replacement Of 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	2,896.99
23 01 60 61-0003	EA	Removal And Replacement Of 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,402.37
23 01 60 61-0004	EA	Removal And Replacement Of 6' Diameter 6 Blade, Cooling Tower Fan Blade.....	3,904.04
23 01 60 61-0005	EA	Removal And Replacement Of 6' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,599.40
23 01 60 61-0006	EA	Removal And Replacement Of 6' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,062.35
23 01 60 61-0007	EA	Removal And Replacement Of 8' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,209.02
23 01 60 61-0008	EA	Removal And Replacement Of 8' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,563.14
23 01 60 61-0009	EA	Removal And Replacement Of 8' Diameter 6 Blade, Cooling Tower Fan Blade.....	4,171.79
23 01 60 61-0010	EA	Removal And Replacement Of 8' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,743.56
23 01 60 61-0011	EA	Removal And Replacement Of 8' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,217.59
23 01 60 61-0012	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 6' Diameter Fan	793.41
23 01 60 61-0013	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 8' Diameter Fan	826.67
23 01 60 61-0014	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 10' Diameter Fan	885.77
23 01 60 61-0015	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 12' Diameter Fan	1,031.54
23 01 60 61-0016	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 14' Diameter Fan	1,275.05
23 01 60 61-0017	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 16' Diameter Fan	1,715.93
23 01 60 61-0018	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 18' Diameter Fan	1,806.37
23 01 60 61-0019	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 20' Diameter Fan	1,942.05
23 01 60 61-0020	EA	Removal And Replacement Of Counterflow Nozzle (1/2" - 2" NPT Thread)	43.63
23 01 60 61-0021	EA	Removal And Replacement Of 6' Polyvinyl Chloride (PVC) Splash Fill	28.24

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)

23 01 60 71-0002	LB	Recovery Of Refrigerant	11.04
23 01 60 71-0003	LB	Recovery And Recharging Of Refrigerant	20.69

Note: Includes cleaning refrigerant gas prior to recharging.

23 05 Common Work Results for HVAC (23)

23 05 13 Common Motor Requirements for HVAC Equipment (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0004	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	613.18
23 05 13 00-0005	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	694.31
23 05 13 00-0006	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0007	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	683.67
23 05 13 00-0008	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	726.23
23 05 13 00-0009	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	952.35
23 05 13 00-0010	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	803.38
23 05 13 00-0011	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	778.11
23 05 13 00-0012	EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	973.63
23 05 13 00-0013	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0014	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	839.29
23 05 13 00-0015	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,239.65
23 05 13 00-0016	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	888.51
23 05 13 00-0017	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	919.10
23 05 13 00-0018	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,624.05
23 05 13 00-0019	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,409.91
23 05 13 00-0020	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,351.38
23 05 13 00-0021	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,947.27
23 05 13 00-0022	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,612.08
23 05 13 00-0023	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,636.02
23 05 13 00-0024	EA	10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,533.84
23 05 13 00-0025	EA	15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,290.43
23 05 13 00-0026	EA	15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,317.03
23 05 13 00-0027	EA	15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,417.03
23 05 13 00-0028	EA	20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,690.79
23 05 13 00-0029	EA	20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,908.93
23 05 13 00-0030	EA	20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,159.22
23 05 13 00-0031	EA	25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,230.81
23 05 13 00-0032	EA	25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,546.05
23 05 13 00-0033	EA	25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,023.79
23 05 13 00-0034	EA	30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,812.07
23 05 13 00-0035	EA	30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,877.24

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 13 00-0036	EA	30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,240.59	
23 05 13 00-0037	EA	40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,912.06	
23 05 13 00-0038	EA	40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,058.37	
23 05 13 00-0039	EA	50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,349.66	
23 05 13 00-0040	EA	50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,582.43	
23 05 13 00-0041	EA	60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,768.88	
23 05 13 00-0042	EA	60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,028.25	
23 05 13 00-0043	EA	75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,879.75	
23 05 13 00-0044	EA	75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,627.03	
23 05 13 00-0045	EA	100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,491.59	
23 05 13 00-0046	EA	100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	10,036.93	
23 05 13 00-0047	EA	125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	11,912.38	
23 05 13 00-0048	EA	125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	12,312.74	
23 05 13 00-0049	EA	150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	14,694.94	

23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0051	EA	40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	7,465.85	
23 05 13 00-0052	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	9,038.03	
23 05 13 00-0053	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	11,474.77	
23 05 13 00-0054	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	12,775.61	
23 05 13 00-0055	EA	100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	14,061.82	
23 05 13 00-0056	EA	125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	15,185.75	
23 05 13 00-0057	EA	150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	13,677.42	
23 05 13 00-0058	EA	150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,884.52	
23 05 13 00-0059	EA	200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	16,652.85	
23 05 13 00-0060	EA	200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,091.78	
23 05 13 00-0061	EA	200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	23,509.52	

23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.

23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0064	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor	716.92	
23 05 13 00-0065	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	790.08	
23 05 13 00-0066	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0067	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	812.69	
23 05 13 00-0068	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	820.67	
23 05 13 00-0069	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	889.84	
23 05 13 00-0070	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	851.26	
23 05 13 00-0071	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	986.93	
23 05 13 00-0072	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0073	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0074	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,094.67	
23 05 13 00-0075	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,029.50	
23 05 13 00-0076	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,705.19	
23 05 13 00-0077	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,640.01	
23 05 13 00-0078	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,484.39	
23 05 13 00-0079	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,662.62	
23 05 13 00-0080	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,675.93	

23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0082	EA	1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,022.85	
23 05 13 00-0083	EA	1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,145.22	
23 05 13 00-0084	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,080.04	
23 05 13 00-0085	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,060.09	
23 05 13 00-0086	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,363.35	
23 05 13 00-0087	EA	2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,135.91	
23 05 13 00-0088	EA	2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,110.63	
23 05 13 00-0089	EA	2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,384.63	
23 05 13 00-0090	EA	3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,226.35	
23 05 13 00-0091	EA	3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,260.93	
23 05 13 00-0092	EA	3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,725.14	
23 05 13 00-0093	EA	5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0094	EA	5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,262.26	
23 05 13 00-0095	EA	5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,001.80	
23 05 13 00-0096	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,747.75	
23 05 13 00-0097	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,683.91	
23 05 13 00-0098	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,854.39	
23 05 13 00-0099	EA	10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,048.35	
23 05 13 00-0100	EA	10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,888.74	
23 05 13 00-0101	EA	10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,258.74	
23 05 13 00-0102	EA	15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,822.47	
23 05 13 00-0103	EA	15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,583.05	
23 05 13 00-0104	EA	15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,346.77	
23 05 13 00-0105	EA	20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,097.80	
23 05 13 00-0106	EA	20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,132.39	
23 05 13 00-0107	EA	20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,787.27	
23 05 13 00-0108	EA	25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,042.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,096.71	
23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,548.08	
23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,802.99	
23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,860.19	
23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,564.28	
23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,584.00	
23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,355.22	
23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,426.42	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,202.49	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,945.78	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,390.98	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,118.07	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,994.37	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,826.39	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,771.38	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,686.26	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	16,100.86	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	14,512.72	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	17,966.99	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,667.09	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	25,974.19	

23 05 13 00-0130

Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,062.75	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,167.83	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,290.20	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,812.93	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,209.06	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,190.44	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,509.66	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,255.85	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,264.93	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,242.31	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,529.62	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,845.08	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,496.36	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,572.18	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,207.97	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,085.83	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,840.86	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,600.11	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,237.23	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,912.06	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,402.16	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,015.10	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,201.55	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,617.01	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,557.78	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,412.80	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,159.22	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,552.07	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,272.05	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,073.86	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,768.41	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,746.74	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,817.39	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,297.32	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,478.92	
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,971.76	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,587.51	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,314.84	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,770.21	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,593.07	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,123.55	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,728.12	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,683.99	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,703.70	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,878.89	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,052.43	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,868.87	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,587.83	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,686.26	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,546.36	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	15,828.19	
23 05 13 00-0182	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,064.24	
23 05 13 00-0183	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,323.38	
23 05 13 00-0184	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	19,263.84	
23 05 13 00-0185	EA		100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,421.41	
23 05 13 00-0186	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,176.68	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 13 Common Motor Requirements for HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0187	EA		100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	21,188.49	
23 05 13 00-0188	EA		125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,295.76	
23 05 13 00-0189	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,124.18	
23 05 13 00-0190	EA		125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	23,936.48	
23 05 13 00-0191	EA		150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,621.01	
23 05 13 00-0192	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,404.20	
23 05 13 00-0193	EA		150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,987.73	
23 05 13 00-0194	EA		200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,786.88	
23 05 13 00-0195	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,951.82	
23 05 13 00-0196	EA		200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	35,351.40	

23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,417.89	
23 05 13 00-0199	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,468.43	
23 05 13 00-0200	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,601.44	
23 05 13 00-0201	EA		3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,979.19	
23 05 13 00-0202	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	2,194.66	
23 05 13 00-0203	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,024.65	
23 05 13 00-0204	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,087.16	
23 05 13 00-0205	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,179.17	
23 05 13 00-0206	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,764.42	
23 05 13 00-0207	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	6,259.45	
23 05 13 00-0208	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	7,025.59	
23 05 13 00-0209	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	9,187.00	
23 05 13 00-0210	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	10,346.85	
23 05 13 00-0211	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	14,474.15	
23 05 13 00-0212	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	16,992.03	
23 05 13 00-0213	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	20,699.02	
23 05 13 00-0214	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	27,054.23	
23 05 13 00-0215	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	30,868.96	

23 05 13 00-0216 Motor Mounting (23 05 13)

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217	EA		1/2 HP Motor Mounting.....	215.14	109.46
23 05 13 00-0218	EA		3/4 HP Motor Mounting.....	247.88	136.83
23 05 13 00-0219	EA		1 HP Motor Mounting.....	265.17	136.83
23 05 13 00-0220	EA		1-1/2 HP Motor Mounting.....	285.06	136.83
23 05 13 00-0221	EA		2 HP Motor Mounting.....	308.17	164.19
23 05 13 00-0222	EA		3 HP Motor Mounting.....	356.32	164.19
23 05 13 00-0223	EA		5 HP Motor Mounting.....	422.31	273.66
23 05 13 00-0224	EA		7-1/2 HP Motor Mounting.....	542.96	273.66
23 05 13 00-0225	EA		10 HP Motor Mounting.....	712.64	478.90
23 05 13 00-0226	EA		15 HP Motor Mounting.....	877.10	478.90
23 05 13 00-0227	EA		20 HP Motor Mounting.....	1,036.57	684.14
23 05 13 00-0228	EA		25 HP Motor Mounting.....	1,175.49	684.14
23 05 13 00-0229	EA		30 HP Motor Mounting.....	1,425.28	684.14
23 05 13 00-0230	EA		40 HP Motor Mounting.....	1,605.95	1,026.20
23 05 13 00-0231	EA		50 HP Motor Mounting.....	1,781.60	1,026.20
23 05 13 00-0232	EA		75 HP Motor Mounting.....	2,151.36	1,505.10
23 05 13 00-0233	EA		100 HP Motor Mounting.....	2,591.41	1,505.10
23 05 13 00-0234	EA		125 HP Motor Mounting.....	3,167.29	2,052.40
23 05 13 00-0235	EA		150 HP Motor Mounting.....	3,678.14	2,052.40
23 05 13 00-0236	EA		200 HP Motor Mounting.....	4,223.05	2,462.88

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)

23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)

Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0003	EA		1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	251.05	113.56
			<i>For 300 LB Rating, Add</i>	5.95	
23 05 16 00-0004	EA		3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	282.05	128.07
			<i>For 300 LB Rating, Add</i>	6.52	
23 05 16 00-0005	EA		1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	327.52	146.80
			<i>For 300 LB Rating, Add</i>	8.50	
23 05 16 00-0006	EA		1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	368.16	163.86
			<i>For 300 LB Rating, Add</i>	10.20	
23 05 16 00-0007	EA		1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	397.55	176.11
			<i>For 300 LB Rating, Add</i>	11.33	
23 05 16 00-0008	EA		2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	461.96	207.24
			<i>For 300 LB Rating, Add</i>	11.90	

23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	686.55	113.51
<i>For 300 LB Rating, Add</i>	136.39	
23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	751.91	136.22
<i>For 300 LB Rating, Add</i>	145.30	
23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	797.54	172.94
<i>For 300 LB Rating, Add</i>	145.33	
23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	860.26	188.12
<i>For 300 LB Rating, Add</i>	156.10	
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	950.74	220.55
<i>For 300 LB Rating, Add</i>	168.68	
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,191.13	369.74
<i>For 300 LB Rating, Add</i>	181.95	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,589.89	404.43
<i>For 300 LB Rating, Add</i>	271.28	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,493.04	449.37
<i>For 300 LB Rating, Add</i>	232.33	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,917.85	574.19
<i>For 300 LB Rating, Add</i>	301.14	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,431.95	699.02
<i>For 300 LB Rating, Add</i>	389.55	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,173.91	529.50
<i>For 300 LB Rating, Add</i>	528.38	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,017.92	998.60
<i>For 300 LB Rating, Add</i>	692.42	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,138.09	1,098.45
<i>For 300 LB Rating, Add</i>	941.26	
23 05 16 00-0023	Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints <small>(23 05 16 00-0001)</small>	
<i>Note: Carbon steel ends. Includes internal sleeves and external covers.</i>		
23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	749.43	155.68
<i>For 300 LB Rating, Add</i>	109.54	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	780.80	156.97
<i>For 300 LB Rating, Add</i>	116.71	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	791.57	162.17
<i>For 300 LB Rating, Add</i>	116.73	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	855.58	176.82
<i>For 300 LB Rating, Add</i>	125.38	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	959.38	207.96
<i>For 300 LB Rating, Add</i>	135.76	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,411.94	414.11
<i>For 300 LB Rating, Add</i>	146.14	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,714.97	422.78
<i>For 300 LB Rating, Add</i>	217.89	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,681.93	468.09
<i>For 300 LB Rating, Add</i>	186.61	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,035.68	534.87
<i>For 300 LB Rating, Add</i>	241.88	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,559.56	655.33
<i>For 300 LB Rating, Add</i>	312.88	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,286.23	794.38
<i>For 300 LB Rating, Add</i>	424.39	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,928.81	808.87
<i>For 300 LB Rating, Add</i>	577.68	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,163.75	1,011.07
<i>For 300 LB Rating, Add</i>	785.29	
23 05 17	Sleeves and Sleeve Seals for HVAC Piping <small>(23 05)</small>	
23 05 17 00-0001	Wall Seals And Sleeves <small>(23 05 17)</small>	
<i>Note: Up to 12" walls. Excludes drilling hole.</i>		
23 05 17 00-0002	Ductile Iron Wall Sleeve <small>(23 05 17 00-0001)</small>	
<i>Note: Includes rubber gasket seal.</i>		
23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal	139.79	61.72
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal	168.87	72.10
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal	205.03	86.49
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal	297.15	129.67
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal	387.50	172.86
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal	480.30	216.17
23 05 17 00-0009	Steel Pipe Sleeves <small>(23 05 17 00-0001)</small>	
<i>Note: Includes link seals 12" length.</i>		
23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals.....	159.71	62.44
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals	192.23	67.69
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals.....	223.51	72.94
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals.....	274.72	87.49
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals.....	388.87	109.27
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....	698.89	131.17
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	830.40	163.98
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,102.68	201.75
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,508.85	262.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 17 Sleeves and Sleeve Seals for HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 17 00-0019	EA		29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,635.56	327.95
23 05 19 Meters and Gages for HVAC Piping (23 05)					
23 05 19 00-0001 Thermometers (23 05 19)					
23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers					
<small>(23 05 19 00-0001) Note: Various ranges.</small>					
23 05 19 00-0003	EA		2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	126.45	45.09
23 05 19 00-0004	EA		2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0005	EA		3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers (23 05 19 00-0001)					
<small>Note: Various ranges.</small>					
23 05 19 00-0007	EA		7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0008	EA		9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0009	EA		12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	201.57	45.09
23 05 19 00-0010	EA		7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	168.18	45.09
23 05 19 00-0011	EA		9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	176.53	45.09
23 05 19 00-0012	EA		12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	206.58	45.09
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers (23 05 19 00-0001)					
<small>Note: Various ranges. Socket connection for thermowell.</small>					
23 05 19 00-0014	EA		7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0015	EA		9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0016	EA		12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0017	EA		7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	184.88	45.09
23 05 19 00-0018	EA		9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0019	EA		12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	205.83	45.09
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells (23 05 19 00-0001)					
23 05 19 00-0021	EA		4" Long, 1" NPT, 304 Stainless Steel Thermowell	190.72	84.53
23 05 19 00-0022	EA		8" Long, 1" NPT, 304 Stainless Steel Thermowell	190.66	84.53
23 05 19 00-0023 Pressure Gauges (23 05 19)					
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)					
23 05 19 00-0025	EA		2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	45.90	17.61
23 05 19 00-0026	EA		4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	55.75	17.61
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)					
23 05 19 00-0028	EA		3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0029	EA		4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0030	EA		6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	260.76	17.61
23 05 19 00-0031	EA		8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	597.49	17.61
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)					
<small>Note: Liquid filled.</small>					
23 05 19 00-0033	EA		2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	129.40	17.61
23 05 19 00-0034	EA		4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	279.99	17.61
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges (23 05 19 00-0023)					
23 05 19 00-0036	EA		4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0037	EA		6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0038	EA		8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0039 Gauge Accessories (23 05 19 00-0023)					
23 05 19 00-0040	EA		Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	89.63	14.09
23 05 19 00-0041	EA		1/4" Snubber Valve	60.00	14.09
23 05 19 00-0042	EA		1/4" Female Pipe Thread, Brass Gauge Cock	38.57	21.14
23 05 19 00-0043	EA		1/4" Male Pipe Thread, Brass Gauge Cock	34.44	21.14
23 05 19 00-0044	EA		1/4" Pressure Pigtail Steam Siphon	38.51	21.14
23 05 19 00-0045	EA		1/4" x 3" Long Black Steel Nipple.....	8.21	7.04
23 05 19 00-0046	EA		1/4" Steel Thread-O-Let.....	84.37	35.22
23 05 19 00-0047	EA		1/4", 300 LB, Black Steel Union	71.82	14.09
23 05 19 00-0048	EA		1/4" Black Steel Coupling.....	29.80	14.09
23 05 19 00-0049	EA		1/4", 300 LB, Black Steel Plug	17.28	8.45
23 05 19 00-0050	EA		1/4", 150 LB, Black Steel Cap.....	17.82	8.45
23 05 19 00-0051	LF		1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	9.12	4.65
23 05 19 00-0052	LF		1/4" Schedule 80, Plain End, Black Steel Pipe	9.07	4.65
23 05 19 00-0053	LF		1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	9.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve	108.22	
23 05 19 00-0055 Valve Lock Covers (23 05 19)		
23 05 19 00-0056 EA Valve Lock Cover.....	82.49	21.56
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter	290.87	95.80
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter	324.71	114.96
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter.....	358.48	127.79
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter.....	403.94	143.71
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter	478.29	164.28
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter.....	629.95	203.09
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter	1,244.91	196.77
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	297.98	
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter	1,692.56	236.12
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	427.11	
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter	2,207.94	295.15
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	566.17	
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter	2,660.12	393.53
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	655.56	
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter	3,810.81	472.24
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,003.21	
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter	6,090.26	590.31
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,718.38	
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter	8,940.31	752.44
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,602.40	
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter	12,587.45	1,128.66
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	3,615.54	
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter	18,542.53	1,254.08
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	5,612.04	
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter.....	854.90	105.67
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	152.04	20.51
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	158.91	21.58
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	171.53	22.68
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	194.84	30.56
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	233.15	37.04
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	267.03	46.90
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	371.81	54.22
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	414.09	64.08
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0088	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	194.38	20.51
23 05 19 00-0089	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	200.31	21.58
23 05 19 00-0090	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	215.75	22.68
23 05 19 00-0091	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	232.48	30.56
23 05 19 00-0092	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	249.15	37.04
23 05 19 00-0093	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	273.62	46.90
23 05 19 00-0094	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	499.78	54.22
23 05 19 00-0095	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	538.29	64.08
23 05 19 00-0096			Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	276.25	20.51
23 05 19 00-0098	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	291.58	21.58
23 05 19 00-0099	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	316.43	22.68
23 05 19 00-0100	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	347.28	30.56
23 05 19 00-0101	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	399.70	37.04
23 05 19 00-0102	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	427.00	46.90
23 05 19 00-0103	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	838.52	54.22
23 05 19 00-0104	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	886.45	64.08
23 05 19 00-0105			Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106	EA		1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	191.56	20.51
23 05 19 00-0107	EA		3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	199.37	21.58
23 05 19 00-0108	EA		1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	211.05	22.68
23 05 19 00-0109	EA		3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	231.54	30.56
23 05 19 00-0110	EA		1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	248.21	37.04
23 05 19 00-0111	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	273.62	46.90
23 05 19 00-0112	EA		1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	494.13	54.22
23 05 19 00-0113	EA		2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	530.77	64.08
23 05 19 00-0114			Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115	EA		1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	274.37	20.51
23 05 19 00-0116	EA		3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	295.34	21.58
23 05 19 00-0117	EA		1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	322.08	22.68
23 05 19 00-0118	EA		3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	347.28	30.56
23 05 19 00-0119	EA		1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	399.70	37.04
23 05 19 00-0120	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	430.76	46.90
23 05 19 00-0121	EA		1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	838.52	54.22
23 05 19 00-0122	EA		2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	886.45	64.08
23 05 19 00-0123			Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124	EA		1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	407.23	37.04
23 05 19 00-0125	EA		1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	460.87	46.90
23 05 19 00-0126	EA		1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	524.24	54.22
23 05 19 00-0127	EA		2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	590.99	64.08
23 05 19 00-0128			Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129	EA		1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	902.79	147.88
23 05 19 00-0130	EA		2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,016.20	187.75
23 05 19 00-0131	EA		3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,477.02	220.45
23 05 19 00-0132	EA		4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	2,242.00	369.57
23 05 19 00-0133	EA		6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	3,535.89	415.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)

23 05 19 00-0135	EA			1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	689.91	105.63
23 05 19 00-0136	EA			1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	813.64	123.23
23 05 19 00-0137	EA			1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	883.50	147.88
23 05 19 00-0138	EA			2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,107.94	187.75
23 05 19 00-0139	EA			3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,589.47	220.45
23 05 19 00-0140	EA			4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	2,363.85	369.57

23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA			Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	270.40	41.52
23 05 19 00-0143	EA			Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	279.01	41.52
23 05 19 00-0144	EA			Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	351.79	41.52
23 05 19 00-0145	EA			Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	362.80	41.52
23 05 19 00-0146	EA			Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	290.03	41.52
23 05 19 00-0147	EA			Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	300.08	41.52
23 05 19 00-0148	EA			Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	371.42	41.52
23 05 19 00-0149	EA			Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	381.47	41.52
23 05 19 00-0150	EA			Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	705.07	41.52
23 05 19 00-0151	EA			Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	714.81	41.52
23 05 19 00-0152	EA			Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	807.32	41.52
23 05 19 00-0153	EA			Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	820.71	41.52
23 05 19 00-0154	EA			Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	728.20	41.52
23 05 19 00-0155	EA			Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	741.59	41.52
23 05 19 00-0156	EA			Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	830.44	41.52
23 05 19 00-0157	EA			Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	845.05	41.52

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

23 05 23 00-0003	EA			1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	86.10	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.30	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0004	EA			3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	88.26	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.95	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0005	EA			1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	90.79	14.09
				<i>For Work In Restricted Working Space, Add</i>	13.63	
				<i>For 150 LB Rating, Add</i>	4.54	
				<i>For 200 LB Rating, Add</i>	6.80	
23 05 23 00-0006	EA			3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	109.98	15.50
				<i>For Work In Restricted Working Space, Add</i>	18.37	
				<i>For 150 LB Rating, Add</i>	4.88	
				<i>For 200 LB Rating, Add</i>	7.31	
23 05 23 00-0007	EA			1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	133.84	17.61
				<i>For Work In Restricted Working Space, Add</i>	22.24	
				<i>For 150 LB Rating, Add</i>	5.97	
				<i>For 200 LB Rating, Add</i>	8.96	
23 05 23 00-0008	EA			1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	191.39	18.74
				<i>For Work In Restricted Working Space, Add</i>	28.17	
				<i>For 150 LB Rating, Add</i>	9.75	
				<i>For 200 LB Rating, Add</i>	14.62	
23 05 23 00-0009	EA			1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	214.30	21.69
				<i>For Work In Restricted Working Space, Add</i>	32.50	
				<i>For 150 LB Rating, Add</i>	10.60	
				<i>For 200 LB Rating, Add</i>	15.89	
23 05 23 00-0010	EA			2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	256.41	25.63
				<i>For Work In Restricted Working Space, Add</i>	38.41	
				<i>For 150 LB Rating, Add</i>	12.84	
				<i>For 200 LB Rating, Add</i>	19.26	
23 05 23 00-0011	EA			2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	545.26	34.62
				<i>For Work In Restricted Working Space, Add</i>	51.87	
				<i>For 150 LB Rating, Add</i>	37.24	
				<i>For 200 LB Rating, Add</i>	55.85	
				<i>For Chain Operated Type, Add</i>	167.56	
23 05 23 00-0012	EA			3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	638.89	40.20
				<i>For Work In Restricted Working Space, Add</i>	59.85	
				<i>For 150 LB Rating, Add</i>	43.94	
				<i>For 200 LB Rating, Add</i>	65.91	

23 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05	23 00-0014	EA	1/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	101.13	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
			<i>For 150 LB Rating, Add</i>	6.01	
			<i>For 200 LB Rating, Add</i>	9.02	
23 05	23 00-0015	EA	3/8" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	103.16	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.95	
			<i>For 150 LB Rating, Add</i>	6.00	
			<i>For 200 LB Rating, Add</i>	9.00	
23 05	23 00-0016	EA	1/2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	118.56	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
			<i>For 150 LB Rating, Add</i>	7.31	
			<i>For 200 LB Rating, Add</i>	10.97	
23 05	23 00-0017	EA	3/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	137.74	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
			<i>For 150 LB Rating, Add</i>	7.65	
			<i>For 200 LB Rating, Add</i>	11.48	
23 05	23 00-0018	EA	1" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	165.52	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
			<i>For 150 LB Rating, Add</i>	9.14	
			<i>For 200 LB Rating, Add</i>	13.71	
23 05	23 00-0019	EA	1-1/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	234.72	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
			<i>For 150 LB Rating, Add</i>	14.08	
			<i>For 200 LB Rating, Add</i>	21.12	
23 05	23 00-0020	EA	1-1/2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	268.80	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
			<i>For 150 LB Rating, Add</i>	16.05	
			<i>For 200 LB Rating, Add</i>	24.07	
23 05	23 00-0021	EA	2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	340.62	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
			<i>For 150 LB Rating, Add</i>	21.26	
			<i>For 200 LB Rating, Add</i>	31.89	
23 05	23 00-0022		Class 125 Threaded, Bronze Gate Valves <small>(23 05 23 00-0001)</small>		
			Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05	23 00-0023	EA	1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	71.41	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0024	EA	3/8" Diameter, 125 LB, Threaded Bronze Gate Valve.....	73.57	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.95	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0025	EA	1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	75.84	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0026	EA	3/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	97.51	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
			<i>For 150 LB Rating, Add</i>	3.63	
			<i>For 200 LB Rating, Add</i>	5.44	
			<i>For 250 LB Rating, Add</i>	9.07	
			<i>For 300 LB Rating, Add</i>	12.70	
23 05	23 00-0027	EA	1" Diameter, 125 LB, Threaded Bronze Gate Valve.....	128.93	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
			<i>For 150 LB Rating, Add</i>	5.48	
			<i>For 200 LB Rating, Add</i>	8.22	
			<i>For 250 LB Rating, Add</i>	13.70	
			<i>For 300 LB Rating, Add</i>	19.18	
23 05	23 00-0028	EA	1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	167.79	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
			<i>For 150 LB Rating, Add</i>	7.39	
			<i>For 200 LB Rating, Add</i>	11.08	
			<i>For 250 LB Rating, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	25.86	
23 05	23 00-0029	EA	1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	201.45	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
			<i>For 150 LB Rating, Add</i>	9.31	
			<i>For 200 LB Rating, Add</i>	13.97	
			<i>For 250 LB Rating, Add</i>	23.28	
			<i>For 300 LB Rating, Add</i>	32.59	
23 05	23 00-0030	EA	2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	255.25	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
			<i>For 150 LB Rating, Add</i>	12.72	
			<i>For 200 LB Rating, Add</i>	19.08	
			<i>For 250 LB Rating, Add</i>	31.80	
			<i>For 300 LB Rating, Add</i>	44.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0031 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	535.72	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	36.28	
<i>For 200 LB Rating, Add</i>	54.42	
<i>For 250 LB Rating, Add</i>	90.71	
<i>For 300 LB Rating, Add</i>	126.99	
<i>For Chain Operated Type, Add</i>	163.27	
23 05 23 00-0032 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	633.20	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	43.37	
<i>For 200 LB Rating, Add</i>	65.06	
<i>For 250 LB Rating, Add</i>	108.43	
<i>For 300 LB Rating, Add</i>	151.80	
<i>For Chain Operated Type, Add</i>	195.17	
23 05 23 00-0033 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve	1,260.13	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	103.32	
<i>For 200 LB Rating, Add</i>	154.98	
<i>For 250 LB Rating, Add</i>	258.30	
<i>For 300 LB Rating, Add</i>	361.62	
<i>For Chain Operated Type, Add</i>	464.94	
23 05 23 00-0034 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0035 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	287.92	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
<i>For 150 LB Rating, Add</i>	35.92	
<i>For 250 LB Rating, Add</i>	62.85	
<i>For Chain Operated Type, Add</i>	62.85	
23 05 23 00-0036 EA 2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	431.48	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
<i>For 150 LB Rating, Add</i>	60.69	
<i>For 250 LB Rating, Add</i>	106.20	
<i>For Chain Operated Type, Add</i>	106.20	
23 05 23 00-0037 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	629.28	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	91.28	
<i>For 250 LB Rating, Add</i>	159.73	
<i>For Chain Operated Type, Add</i>	159.73	
23 05 23 00-0038 EA 3" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	798.29	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	119.76	
<i>For 250 LB Rating, Add</i>	209.58	
<i>For Chain Operated Type, Add</i>	209.58	
23 05 23 00-0039 EA 4" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,838.81	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	322.38	
<i>For 250 LB Rating, Add</i>	564.16	
<i>For Chain Operated Type, Add</i>	564.16	
23 05 23 00-0040 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0041 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	438.89	147.88
<i>For Work In Restricted Working Space, Add</i>	55.60	
<i>For 150 LB Rating, Add</i>	73.54	
<i>For 250 LB Rating, Add</i>	126.79	
<i>For 300 LB Rating, ASTM A182, Add</i>	346.23	
<i>For Chain Operated Type, Add</i>	126.79	
23 05 23 00-0042 EA 2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	499.94	187.75
<i>For Work In Restricted Working Space, Add</i>	70.42	
<i>For 150 LB Rating, Add</i>	76.91	
<i>For 250 LB Rating, Add</i>	132.60	
<i>For 300 LB Rating, ASTM A182, Add</i>	382.57	
<i>For Chain Operated Type, Add</i>	132.60	
23 05 23 00-0043 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	553.96	188.03
<i>For Work In Restricted Working Space, Add</i>	70.73	
<i>For 150 LB Rating, Add</i>	92.28	
<i>For 250 LB Rating, Add</i>	159.10	
<i>For 300 LB Rating, ASTM A182, Add</i>	436.08	
<i>For Chain Operated Type, Add</i>	159.10	
23 05 23 00-0044 EA 3" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	673.61	220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	115.34	
<i>For 250 LB Rating, Add</i>	198.86	
<i>For 300 LB Rating, ASTM A182, Add</i>	535.66	
<i>For Chain Operated Type, Add</i>	198.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045 EA 4" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	993.44	369.57
For Work In Restricted Working Space, Add	138.94	
For 150 LB Rating, Add	153.79	
For 250 LB Rating, Add	265.16	
For 300 LB Rating, ASTM A182, Add	761.88	
For Chain Operated Type, Add	265.16	
23 05 23 00-0046 EA 5" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,155.51	373.50
For Work In Restricted Working Space, Add	139.85	
For 150 LB Rating, Add	199.91	
For 250 LB Rating, Add	344.67	
For 300 LB Rating, ASTM A182, Add	922.43	
For Chain Operated Type, Add	344.67	
23 05 23 00-0047 EA 6" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,368.95	415.01
For Work In Restricted Working Space, Add	156.19	
For 150 LB Rating, Add	246.02	
For 250 LB Rating, Add	424.17	
For 300 LB Rating, ASTM A182, Add	1,108.64	
For Chain Operated Type, Add	424.17	
23 05 23 00-0048 EA 8" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,064.01	530.29
For Work In Restricted Working Space, Add	197.62	
For 150 LB Rating, Add	407.53	
For 250 LB Rating, Add	702.64	
For 300 LB Rating, ASTM A182, Add	1,734.64	
For Chain Operated Type, Add	702.64	
23 05 23 00-0049 EA 10" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,662.83	645.57
For Work In Restricted Working Space, Add	242.09	
For 150 LB Rating, Add	538.21	
For 250 LB Rating, Add	927.94	
For 300 LB Rating, ASTM A182, Add	2,259.36	
For Chain Operated Type, Add	927.94	
23 05 23 00-0050 EA 12" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,629.53	783.89
For Work In Restricted Working Space, Add	293.44	
For 150 LB Rating, Add	768.91	
For 250 LB Rating, Add	1,325.70	
For 300 LB Rating, ASTM A182, Add	3,140.47	
For Chain Operated Type, Add	1,325.70	
23 05 23 00-0051 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0052 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	548.53	21.69
For Work In Restricted Working Space, Add	32.50	
For 175 LB Rating, Add	220.10	
For 250 LB Rating, Add	330.14	
23 05 23 00-0053 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	697.09	25.63
For Work In Restricted Working Space, Add	38.41	
For 175 LB Rating, Add	284.53	
For 250 LB Rating, Add	426.79	
23 05 23 00-0054 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	814.58	34.62
For Work In Restricted Working Space, Add	51.87	
For 175 LB Rating, Add	320.84	
For 250 LB Rating, Add	481.26	
23 05 23 00-0055 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	907.53	40.20
For Work In Restricted Working Space, Add	59.85	
For 175 LB Rating, Add	354.02	
For 250 LB Rating, Add	531.02	
23 05 23 00-0056 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,204.62	45.38
For Work In Restricted Working Space, Add	68.08	
For 175 LB Rating, Add	488.85	
For 250 LB Rating, Add	733.27	
23 05 23 00-0057 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0058 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	550.87	147.88
For Work In Restricted Working Space, Add	55.60	
For 150 LB Rating, Add	54.83	
For 175 LB Rating, Add	113.32	
For 250 LB Rating, Add	237.61	
For Chain Operated Type, Add	182.78	
23 05 23 00-0059 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	611.14	187.75
For Work In Restricted Working Space, Add	70.42	
For 150 LB Rating, Add	56.46	
For 175 LB Rating, Add	116.68	
For 250 LB Rating, Add	244.66	
For Chain Operated Type, Add	188.20	
23 05 23 00-0060 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	624.46	188.03
For Work In Restricted Working Space, Add	70.73	
For 150 LB Rating, Add	58.30	
For 175 LB Rating, Add	120.49	
For 250 LB Rating, Add	252.65	
For Chain Operated Type, Add	194.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0061 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	703.56	220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	64.15	
<i>For 175 LB Rating, Add</i>	132.57	
<i>For 250 LB Rating, Add</i>	277.98	
<i>For Chain Operated Type, Add</i>	213.83	
23 05 23 00-0062 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	981.77	369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
<i>For 150 LB Rating, Add</i>	77.80	
<i>For 175 LB Rating, Add</i>	160.78	
<i>For 250 LB Rating, Add</i>	337.12	
<i>For Chain Operated Type, Add</i>	259.32	
23 05 23 00-0063 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,189.79	373.50
<i>For Work In Restricted Working Space, Add</i>	139.85	
<i>For 150 LB Rating, Add</i>	108.54	
<i>For 175 LB Rating, Add</i>	224.32	
<i>For 250 LB Rating, Add</i>	470.35	
<i>For Chain Operated Type, Add</i>	361.81	
23 05 23 00-0064 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,347.02	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
<i>For 150 LB Rating, Add</i>	123.96	
<i>For 175 LB Rating, Add</i>	256.18	
<i>For 250 LB Rating, Add</i>	537.16	
<i>For Chain Operated Type, Add</i>	413.20	
23 05 23 00-0065 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,056.41	530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
<i>For 150 LB Rating, Add</i>	209.65	
<i>For 175 LB Rating, Add</i>	433.28	
<i>For 250 LB Rating, Add</i>	908.49	
<i>For Chain Operated Type, Add</i>	698.84	
23 05 23 00-0066 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,957.96	645.57
<i>For Work In Restricted Working Space, Add</i>	242.09	
<i>For 150 LB Rating, Add</i>	322.65	
<i>For 175 LB Rating, Add</i>	666.81	
<i>For 250 LB Rating, Add</i>	1,398.16	
<i>For Chain Operated Type, Add</i>	1,075.51	
23 05 23 00-0067 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,704.36	783.89
<i>For Work In Restricted Working Space, Add</i>	293.44	
<i>For 150 LB Rating, Add</i>	408.93	
<i>For 175 LB Rating, Add</i>	845.13	
<i>For 250 LB Rating, Add</i>	1,772.05	
<i>For Chain Operated Type, Add</i>	1,363.12	
23 05 23 00-0068 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	7,114.24	1,040.46
<i>For Work In Restricted Working Space, Add</i>	390.17	
<i>For 150 LB Rating, Add</i>	872.05	
<i>For 175 LB Rating, Add</i>	1,802.23	
<i>For 250 LB Rating, Add</i>	3,778.88	
23 05 23 00-0069 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	9,163.39	1,144.51
<i>For Work In Restricted Working Space, Add</i>	429.19	
<i>For 150 LB Rating, Add</i>	1,159.91	
<i>For 175 LB Rating, Add</i>	2,397.15	
<i>For 250 LB Rating, Add</i>	5,026.29	
23 05 23 00-0070 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	12,412.69	1,269.37
<i>For Work In Restricted Working Space, Add</i>	476.01	
<i>For 150 LB Rating, Add</i>	1,623.90	
<i>For 175 LB Rating, Add</i>	3,356.06	
<i>For 250 LB Rating, Add</i>	7,036.89	
23 05 23 00-0071 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	15,705.29	1,430.64
<i>For Work In Restricted Working Space, Add</i>	536.49	
<i>For 150 LB Rating, Add</i>	2,087.55	
<i>For 175 LB Rating, Add</i>	4,314.27	
<i>For 250 LB Rating, Add</i>	9,046.05	
23 05 23 00-0072 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	21,393.53	1,755.78
<i>For Work In Restricted Working Space, Add</i>	658.42	
<i>For 150 LB Rating, Add</i>	2,879.82	
<i>For 175 LB Rating, Add</i>	5,951.63	
<i>For 250 LB Rating, Add</i>	12,479.22	
23 05 23 00-0073 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	44,374.03	2,861.27
<i>For Work In Restricted Working Space, Add</i>	1,072.97	
<i>For 150 LB Rating, Add</i>	6,119.62	
<i>For 175 LB Rating, Add</i>	12,647.21	
<i>For 250 LB Rating, Add</i>	26,518.34	
23 05 23 00-0074 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	56,605.54	3,815.02
<i>For Work In Restricted Working Space, Add</i>	1,430.63	
<i>For 150 LB Rating, Add</i>	7,775.51	
<i>For 175 LB Rating, Add</i>	16,069.40	
<i>For 250 LB Rating, Add</i>	33,693.89	
23 05 23 00-0075 EA 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	66,606.54	4,904.25
<i>For Work In Restricted Working Space, Add</i>	1,839.10	
<i>For 150 LB Rating, Add</i>	9,071.43	
<i>For 175 LB Rating, Add</i>	18,747.63	
<i>For 250 LB Rating, Add</i>	39,309.54	
23 05 23 00-0076 EA 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	80,191.70	6,130.32
<i>For Work In Restricted Working Space, Add</i>	2,298.87	
<i>For 150 LB Rating, Add</i>	10,879.32	
<i>For 175 LB Rating, Add</i>	22,483.93	
<i>For 250 LB Rating, Add</i>	47,143.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0077	EA		54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	96,230.04	7,356.38
			<i>For Work In Restricted Working Space, Add</i>	2,758.64	
			<i>For 150 LB Rating, Add</i>	13,055.18	
			<i>For 175 LB Rating, Add</i>	26,980.71	
			<i>For 250 LB Rating, Add</i>	56,572.46	
23 05 23 00-0078			Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001)		
			Note: 800 psig at 850 degrees F.		
23 05 23 00-0079	EA		1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	167.17	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0080	EA		1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	171.60	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0081	EA		3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	204.31	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0082	EA		1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	247.98	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0083	EA		1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	374.40	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0084	EA		1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	442.19	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0085	EA		2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	554.20	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0086			200 PSI, Non Rising Stem, Crimped Bronze Gate Valves (23 05 23 00-0001)		
			Note: 200 psi cold working pressure.		
23 05 23 00-0087	EA		1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	116.56	14.09
			<i>For Work In Restricted Working Space, Add</i>	9.51	
23 05 23 00-0088	EA		3/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	131.38	15.50
			<i>For Work In Restricted Working Space, Add</i>	10.83	
23 05 23 00-0089	EA		1" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	171.46	17.61
			<i>For Work In Restricted Working Space, Add</i>	12.94	
23 05 23 00-0090	EA		1-1/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	230.63	18.74
			<i>For Work In Restricted Working Space, Add</i>	14.26	
23 05 23 00-0091	EA		1-1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	266.71	21.69
			<i>For Work In Restricted Working Space, Add</i>	15.85	
23 05 23 00-0092	EA		2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	364.50	25.63
			<i>For Work In Restricted Working Space, Add</i>	19.01	
23 05 23 00-0093			Ball Valves (23 05 23)		
			See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0094			Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093)		
			Note: 125 LB WSP.		
23 05 23 00-0095	EA		1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	56.94	14.09
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	5.18	
			<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0096	EA		3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	78.91	15.50
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	7.96	
			<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0097	EA		1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	98.00	17.61
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	10.74	
			<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0098	EA		1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	133.98	18.74
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	18.04	
			<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0099	EA		1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	159.52	21.69
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	23.03	
			<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0100	EA		2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	192.16	25.63
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	28.85	
			<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0101	EA		2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	475.47	34.62
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	136.16	
			<i>For Work In Restricted Working Space, Add</i>	51.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0102 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	548.61	40.20
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	157.10	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0103 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	702.89	45.38
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	214.18	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0104 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0093)		
23 05 23 00-0105 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	63.01	14.09
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0106 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	69.32	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0107 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	95.77	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0108 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	120.58	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0109 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	173.29	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0110 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	208.91	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0111 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	266.52	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0112 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0093)		
23 05 23 00-0113 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	1,428.07	369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0114 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	2,297.22	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0115 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	4,840.49	530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0116 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0093)		
23 05 23 00-0117 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	53.51	14.09
<i>For True Union Socket Or Thread Type, Add</i>	5.61	
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0118 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	70.51	15.50
<i>For True Union Socket Or Thread Type, Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0119 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	87.06	17.61
<i>For True Union Socket Or Thread Type, Add</i>	9.06	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0120 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	110.88	18.74
<i>For True Union Socket Or Thread Type, Add</i>	11.72	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0121 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	137.89	21.69
<i>For True Union Socket Or Thread Type, Add</i>	17.51	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0122 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	165.70	25.63
<i>For True Union Socket Or Thread Type, Add</i>	21.79	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0123 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	253.93	34.62
<i>For True Union Socket Or Thread Type, Add</i>	41.49	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0124 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	337.27	40.20
<i>For True Union Socket Or Thread Type, Add</i>	65.58	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0125 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	490.36	45.38
<i>For True Union Socket Or Thread Type, Add</i>	117.29	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0126 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0127 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	96.10	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	18.46	
23 05 23 00-0128 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	99.34	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 05 23 00-0129 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	102.73	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	20.45	
23 05 23 00-0130 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	128.52	23.24
<i>For Full Port, Add</i>	16.50	
<i>For Work In Restricted Working Space, Add</i>	27.56	
23 05 23 00-0131 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	165.51	26.41
<i>For Full Port, Add</i>	24.44	
<i>For Work In Restricted Working Space, Add</i>	33.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0132 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	215.17	28.10
For Full Port, Add	33.45	
For Work In Restricted Working Space, Add	42.25	
23 05 23 00-0133 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	261.34	32.53
For Full Port, Add	44.47	
For Work In Restricted Working Space, Add	48.75	
23 05 23 00-0134 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	352.90	38.45
For Full Port, Add	72.38	
For Work In Restricted Working Space, Add	57.62	
23 05 23 00-0135 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	649.69	51.93
For Full Port, Add	175.65	
For Work In Restricted Working Space, Add	77.81	
23 05 23 00-0136 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	919.08	60.30
For Full Port, Add	278.92	
For Work In Restricted Working Space, Add	89.78	
23 05 23 00-0137 Crimped Bronze, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0138 Crimped Bronze, 250 PSI, Ball Valves (23 05 23 00-0137)		
Note: Nibco®		
23 05 23 00-0139 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	82.95	14.09
For Work In Restricted Working Space, Add	9.51	
23 05 23 00-0140 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	105.94	15.50
For Work In Restricted Working Space, Add	10.83	
23 05 23 00-0141 EA 1" Crimped Bronze, 250 PSI, Ball Valve	135.07	17.61
For Work In Restricted Working Space, Add	12.94	
23 05 23 00-0142 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	211.99	18.74
For Work In Restricted Working Space, Add	14.26	
23 05 23 00-0143 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	277.36	21.69
For Work In Restricted Working Space, Add	15.85	
23 05 23 00-0144 EA 2" Crimped Bronze, 250 PSI, Ball Valve	413.44	25.63
For Work In Restricted Working Space, Add	19.01	
23 05 23 00-0145 Crimped Bronze, 200 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0146 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	60.00	14.09
23 05 23 00-0147 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	75.88	15.50
23 05 23 00-0148 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	92.11	17.61
23 05 23 00-0149 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	127.13	18.74
23 05 23 00-0150 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	163.02	21.69
23 05 23 00-0151 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	239.39	25.63
23 05 23 00-0152 Crimped Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0153 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	68.42	14.09
23 05 23 00-0154 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	82.01	15.50
23 05 23 00-0155 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	101.90	17.61
23 05 23 00-0156 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	157.74	18.74
23 05 23 00-0157 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	228.83	21.69
23 05 23 00-0158 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	315.92	25.63
23 05 23 00-0159 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0160 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	66.13	14.09
23 05 23 00-0161 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	79.86	15.50
23 05 23 00-0162 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	97.00	17.61
23 05 23 00-0163 Globe Valves (23 05 23)		
23 05 23 00-0164 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0163)		
23 05 23 00-0165 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	80.05	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0166 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	75.62	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0167 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	94.83	14.09
For 150 LB Rating, Add	16.01	
For 200 LB Rating, Add	19.63	
For 250 LB Rating, Add	23.25	
For 300 LB Rating, Add	28.41	
For Work In Restricted Working Space, Add	12.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0168 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	97.10	14.09
<i>For 150 LB Rating, Add</i>	16.01	
<i>For 200 LB Rating, Add</i>	19.63	
<i>For 250 LB Rating, Add</i>	23.25	
<i>For 300 LB Rating, Add</i>	28.41	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	75.00	
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0169 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	117.23	14.79
<i>For 150 LB Rating, Add</i>	17.36	
<i>For 200 LB Rating, Add</i>	21.28	
<i>For 250 LB Rating, Add</i>	25.20	
<i>For 300 LB Rating, Add</i>	30.80	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	86.09	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0170 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	149.82	14.79
<i>For 150 LB Rating, Add</i>	23.46	
<i>For 200 LB Rating, Add</i>	28.76	
<i>For 250 LB Rating, Add</i>	34.06	
<i>For 300 LB Rating, Add</i>	41.63	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	112.91	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0171 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	224.62	18.74
<i>For 150 LB Rating, Add</i>	40.52	
<i>For 200 LB Rating, Add</i>	49.67	
<i>For 250 LB Rating, Add</i>	58.82	
<i>For 300 LB Rating, Add</i>	71.90	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	181.35	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0172 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	295.16	21.69
<i>For 150 LB Rating, Add</i>	57.91	
<i>For 200 LB Rating, Add</i>	70.99	
<i>For 250 LB Rating, Add</i>	84.07	
<i>For 300 LB Rating, Add</i>	102.75	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	248.84	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0173 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	347.66	25.63
<i>For 150 LB Rating, Add</i>	68.08	
<i>For 200 LB Rating, Add</i>	83.46	
<i>For 250 LB Rating, Add</i>	98.83	
<i>For 300 LB Rating, Add</i>	120.79	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	292.80	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0174 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	394.32	34.62
<i>For 150 LB Rating, Add</i>	68.64	
<i>For 200 LB Rating, Add</i>	84.14	
<i>For 250 LB Rating, Add</i>	99.64	
<i>For 300 LB Rating, Add</i>	121.78	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0175 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB	695.57	40.20
<i>For 150 LB Rating, Add</i>	153.78	
<i>For 200 LB Rating, Add</i>	188.51	
<i>For 250 LB Rating, Add</i>	223.23	
<i>For 300 LB Rating, Add</i>	272.84	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0176 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0177 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	513.90	25.63
<i>For 150 LB Rating, Add</i>	119.62	
<i>For 200 LB Rating, Add</i>	146.63	
<i>For 250 LB Rating, Add</i>	173.64	
<i>For 300 LB Rating, Add</i>	212.22	
<i>For Chain Operated Type, Add</i>	322.19	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0178 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	640.60	34.62
<i>For 150 LB Rating, Add</i>	144.99	
<i>For 200 LB Rating, Add</i>	177.73	
<i>For 250 LB Rating, Add</i>	210.47	
<i>For 300 LB Rating, Add</i>	257.24	
<i>For Chain Operated Type, Add</i>	390.53	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0179 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	760.75	40.20
<i>For 150 LB Rating, Add</i>	173.99	
<i>For 200 LB Rating, Add</i>	213.28	
<i>For 250 LB Rating, Add</i>	252.56	
<i>For 300 LB Rating, Add</i>	308.69	
<i>For Chain Operated Type, Add</i>	468.64	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0180 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	975.20	45.38
<i>For 150 LB Rating, Add</i>	231.98	
<i>For 200 LB Rating, Add</i>	284.37	
<i>For 250 LB Rating, Add</i>	336.75	
<i>For 300 LB Rating, Add</i>	411.58	
<i>For Chain Operated Type, Add</i>	624.86	
<i>For Work In Restricted Working Space, Add</i>	68.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0181 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0182 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	451.98	187.75
For 150 LB Rating, Add	67.34	
For 250 LB Rating, Add	97.76	
For Chain Operated Type, Add	108.62	
For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0183 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	500.60	188.03
For 150 LB Rating, Add	82.10	
For 250 LB Rating, Add	119.17	
For Chain Operated Type, Add	132.42	
For Work In Restricted Working Space, Add	70.73	
23 05 23 00-0184 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	593.69	220.45
For 150 LB Rating, Add	98.51	
For 250 LB Rating, Add	143.01	
For Chain Operated Type, Add	158.90	
For Work In Restricted Working Space, Add	82.77	
23 05 23 00-0185 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	886.85	369.57
For 150 LB Rating, Add	131.35	
For 250 LB Rating, Add	190.67	
For Chain Operated Type, Add	211.86	
For Work In Restricted Working Space, Add	138.94	
23 05 23 00-0186 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,055.41	373.50
For 150 LB Rating, Add	182.66	
For 250 LB Rating, Add	265.16	
For Chain Operated Type, Add	294.62	
For Work In Restricted Working Space, Add	139.85	
23 05 23 00-0187 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,265.45	415.01
For 150 LB Rating, Add	230.90	
For 250 LB Rating, Add	335.17	
For Chain Operated Type, Add	372.42	
For Work In Restricted Working Space, Add	156.19	
23 05 23 00-0188 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,804.12	530.29
For 150 LB Rating, Add	355.07	
For 250 LB Rating, Add	515.42	
For Chain Operated Type, Add	572.69	
For Work In Restricted Working Space, Add	197.62	
23 05 23 00-0189 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,551.50	645.57
For 150 LB Rating, Add	540.81	
For 250 LB Rating, Add	785.05	
For Chain Operated Type, Add	872.28	
For Work In Restricted Working Space, Add	242.09	
23 05 23 00-0190 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	4,279.29	783.89
For 150 LB Rating, Add	1,023.36	
For 250 LB Rating, Add	1,485.52	
For Chain Operated Type, Add	1,650.58	
For Work In Restricted Working Space, Add	293.44	
23 05 23 00-0191 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0192 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	71.66	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0193 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	67.23	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0194 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	69.39	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0195 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	73.40	14.09
For 150 LB Rating, Add	8.67	
For 200 LB Rating, Add	10.62	
For 300 LB Rating, Add	15.38	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0196 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	100.01	14.79
For 150 LB Rating, Add	12.02	
For 200 LB Rating, Add	14.74	
For 300 LB Rating, Add	21.33	
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0197 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	125.01	14.79
For 150 LB Rating, Add	15.77	
For 200 LB Rating, Add	19.33	
For 300 LB Rating, Add	27.98	
For Work In Restricted Working Space, Add	22.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0198 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	169.49	18.74
<i>For 150 LB Rating, Add</i>	23.43	
<i>For 200 LB Rating, Add</i>	28.72	
<i>For 300 LB Rating, Add</i>	41.57	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0199 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	196.47	21.69
<i>For 150 LB Rating, Add</i>	27.32	
<i>For 200 LB Rating, Add</i>	33.49	
<i>For 300 LB Rating, Add</i>	48.47	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0200 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	260.78	25.63
<i>For 150 LB Rating, Add</i>	41.15	
<i>For 200 LB Rating, Add</i>	50.44	
<i>For 300 LB Rating, Add</i>	73.01	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0201 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	427.23	37.60
<i>For 150 LB Rating, Add</i>	74.23	
<i>For 200 LB Rating, Add</i>	90.99	
<i>For 300 LB Rating, Add</i>	131.69	
<i>For Work In Restricted Working Space, Add</i>	56.34	
23 05 23 00-0202 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	622.18	43.67
<i>For 150 LB Rating, Add</i>	125.71	
<i>For 200 LB Rating, Add</i>	154.09	
<i>For 300 LB Rating, Add</i>	223.03	
<i>For Work In Restricted Working Space, Add</i>	65.00	
23 05 23 00-0203 Flanged, 125 LB, Iron Body, Angle Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0204 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	793.66	187.75
<i>For 250 LB Rating, Add</i>	335.35	
<i>For Chain Operated Type, Add</i>	217.98	
<i>For Work In Restricted Working Space, Add</i>	70.42	
23 05 23 00-0205 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	896.79	188.03
<i>For 250 LB Rating, Add</i>	396.61	
<i>For Chain Operated Type, Add</i>	257.80	
<i>For Work In Restricted Working Space, Add</i>	70.73	
23 05 23 00-0206 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,054.87	220.45
<i>For 250 LB Rating, Add</i>	467.38	
<i>For Chain Operated Type, Add</i>	303.80	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0207 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,575.72	369.57
<i>For 250 LB Rating, Add</i>	667.55	
<i>For Chain Operated Type, Add</i>	433.91	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0208 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,460.13	373.50
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0209 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,514.58	415.01
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0210 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	4,561.32	530.29
<i>For 250 LB Rating, Add</i>	2,341.55	
<i>For Chain Operated Type, Add</i>	1,522.01	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0211 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves <small>(23 05 23 00-0163)</small>		
Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0212 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	208.70	22.82
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0213 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	213.13	22.82
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0214 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	252.00	30.70
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0215 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	311.06	37.04
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0216 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	500.06	46.90
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0217 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	599.12	54.22
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0218 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	760.36	64.08
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0219 Triple Duty Valves <small>(23 05 23)</small>		
Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0220 Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0219)</small>		
Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0221 EA 1" Threaded, Straight Pattern, Triple Duty Valve.....	290.82	14.79
23 05 23 00-0222 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	339.15	18.74
23 05 23 00-0223 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	370.02	21.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0224 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	946.27	187.75
23 05 23 00-0225 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve	1,057.71	188.03
23 05 23 00-0226 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	1,163.27	220.45
23 05 23 00-0227 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	2,352.36	369.57
23 05 23 00-0228 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	2,694.81	373.50
23 05 23 00-0229 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	3,563.01	415.01
23 05 23 00-0230 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	4,788.87	530.29
23 05 23 00-0231 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	7,627.80	645.57
23 05 23 00-0232 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0233 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	925.82	187.75
23 05 23 00-0234 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	1,033.17	188.03
23 05 23 00-0235 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	1,142.82	220.45
23 05 23 00-0236 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	2,299.20	369.57
23 05 23 00-0237 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,629.38	373.50
23 05 23 00-0238 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	2,949.63	415.01
23 05 23 00-0239 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	4,498.54	530.29
23 05 23 00-0240 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	5,996.20	645.57
23 05 23 00-0241 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0242 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,073.30	220.45
23 05 23 00-0243 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,115.18	369.57
23 05 23 00-0244 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,420.83	373.50
23 05 23 00-0245 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,190.89	415.01
23 05 23 00-0246 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	4,281.81	530.29
23 05 23 00-0247 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	6,781.33	645.57
23 05 23 00-0248 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	10,154.67	783.89
23 05 23 00-0249 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	12,334.31	922.23
23 05 23 00-0250 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	15,413.58	1,014.46
23 05 23 00-0251 Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0252 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	951.04	34.79
23 05 23 00-0253 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	1,134.02	41.50
23 05 23 00-0254 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,318.75	45.00
23 05 23 00-0255 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	2,179.23	48.50
23 05 23 00-0256 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,520.71	58.79
23 05 23 00-0257 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	3,359.83	75.39
23 05 23 00-0258 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	4,567.50	95.68
23 05 23 00-0259 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	7,194.88	107.21
23 05 23 00-0260 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	11,411.57	130.72
23 05 23 00-0261 Plug Valves (23 05 23)		
23 05 23 00-0262 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0261)		
Note: Includes wrench.		
23 05 23 00-0263 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	290.72	14.09
23 05 23 00-0264 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	306.51	15.50
23 05 23 00-0265 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	386.99	17.61
23 05 23 00-0266 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	464.33	18.74
23 05 23 00-0267 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	511.31	21.69
23 05 23 00-0268 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	603.59	25.63
23 05 23 00-0269 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	901.24	34.62
23 05 23 00-0270 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,100.54	40.20
23 05 23 00-0271 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0261)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0272 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	466.73	187.75
23 05 23 00-0273 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	541.35	188.03
23 05 23 00-0274 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	659.88	220.45
23 05 23 00-0275 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	983.10	369.57
23 05 23 00-0276 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,907.73	415.01
23 05 23 00-0277 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	3,157.78	530.29
23 05 23 00-0278 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	4,971.49	645.57
23 05 23 00-0279 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	7,299.33	783.89
23 05 23 00-0280 Plug Valves, Forged Steel, Screwed (23 05 23 00-0261)		
23 05 23 00-0281 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,094.61	14.09
23 05 23 00-0282 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,294.74	15.50
23 05 23 00-0283 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,464.68	17.61
23 05 23 00-0284 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,758.31	18.74
23 05 23 00-0285 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,047.37	21.69
23 05 23 00-0286 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,690.65	25.63



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0287				Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0261)</small>		
				23 05 23 00-0288 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,095.21	369.57
				23 05 23 00-0289 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,604.47	415.01
				23 05 23 00-0290 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,169.52	530.29
				23 05 23 00-0291 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,043.06	645.57
				23 05 23 00-0292 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,912.62	783.89
23 05 23 00-0293				Foot Valves <small>(23 05 23)</small>		
23 05 23 00-0294				Single Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0295 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0296 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	121.04	39.44
				23 05 23 00-0297 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	152.76	45.09
				23 05 23 00-0298 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	198.03	50.72
				23 05 23 00-0299 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	439.11	83.12
				23 05 23 00-0300 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	559.35	101.44
23 05 23 00-0301				Double Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0302 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0303 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	214.30	39.44
				23 05 23 00-0304 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	206.56	45.09
				23 05 23 00-0305 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	276.91	50.72
				23 05 23 00-0306 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	536.90	83.12
				23 05 23 00-0307 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	725.28	100.04
23 05 23 00-0308				Float Valves <small>(23 05 23)</small>		
23 05 23 00-0309				Float Valve Assembly For Maintaining Liquid Level In Tanks <small>(23 05 23 00-0308)</small>		
23 05 23 00-0310				Single Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
				23 05 23 00-0311 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	227.76	29.58
				23 05 23 00-0312 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	261.59	35.21
				23 05 23 00-0313 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	336.15	38.02
				23 05 23 00-0314 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....	555.02	47.89
				23 05 23 00-0315 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....	569.11	54.93
23 05 23 00-0316				Double Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For hot or cold water or oil to open tanks.		
				23 05 23 00-0317 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	1,171.72	29.58
				23 05 23 00-0318 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	1,183.00	35.21
				23 05 23 00-0319 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	1,364.22	38.02
				23 05 23 00-0320 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	1,510.36	47.89
				23 05 23 00-0321 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,726.74	54.93
				23 05 23 00-0322 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	2,262.29	64.78
				23 05 23 00-0323 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....	2,635.30	86.88
				23 05 23 00-0324 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	3,168.25	99.85
23 05 23 00-0325				Float Valve Single Seated Balanced For Air Oil Or Water <small>(23 05 23 00-0308)</small>		
				Note: Includes arm, ball and bracket.		
23 05 23 00-0326				Brass Body Threaded Ends <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0327 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	249.92	38.16
				23 05 23 00-0328 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	282.13	42.40
				23 05 23 00-0329 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	346.07	46.90
				23 05 23 00-0330 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	553.64	75.78
				23 05 23 00-0331 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	584.05	86.34
				23 05 23 00-0332 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	663.42	107.04
23 05 23 00-0333				Cast Iron Body Flanged <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0334 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,345.60	188.03
				23 05 23 00-0335 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	8,880.15	220.45
23 05 23 00-0336				Float Operated Valves <small>(23 05 23 00-0308)</small>		
23 05 23 00-0337				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, self-contained, float in-line mount.		
				23 05 23 00-0338 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	840.61	66.19
23 05 23 00-0339				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, external float tank mount, flanged.		
				23 05 23 00-0340 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,073.84	123.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 05 23 00-0341		Needle Valves <small>(23 05 23)</small>			
23 05 23 00-0342		Bronze Needle Valve <small>(23 05 23 00-0341)</small>			
		Note: For heating and cooling applications.			
23 05 23 00-0343	EA	1/4" Needle Valve, Bronze.....	120.71		14.09
23 05 23 00-0344	EA	3/8" Needle Valve, Bronze.....	134.10		14.09
23 05 23 00-0345	EA	1/2" Needle Valve, Bronze.....	146.33		14.09
23 05 23 00-0346	EA	3/4" Needle Valve, Bronze.....	220.58		15.50
23 05 23 00-0347	EA	1" Needle Valve, Bronze.....	334.07		17.61
23 05 23 00-0348		Eccentric Valves With Taps <small>(23 05 23)</small>			
23 05 23 00-0349		Screwed Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>			
23 05 23 00-0350	EA	1/2" Diameter Eccentric Valves With Taps, Screwed.....	229.00		14.09
23 05 23 00-0351	EA	3/4" Diameter Eccentric Valves With Taps, Screwed.....	247.61		15.50
23 05 23 00-0352	EA	1" Diameter Eccentric Valves With Taps, Screwed.....	311.35		17.61
23 05 23 00-0353	EA	1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	379.12		18.74
23 05 23 00-0354	EA	1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	416.16		21.69
23 05 23 00-0355	EA	2" Diameter Eccentric Valves With Taps, Screwed.....	489.51		25.63
23 05 23 00-0356	EA	2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	732.05		34.62
23 05 23 00-0357	EA	3" Diameter Eccentric Valves With Taps, Screwed.....	885.73		40.20
23 05 23 00-0358		Flanged Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>			
23 05 23 00-0359	EA	2-1/2" Diameter Eccentric Valves With Taps, Flanged.....	899.41		188.03
23 05 23 00-0360	EA	3" Diameter Eccentric Valves With Taps, Flanged.....	1,066.62		220.45
23 05 23 00-0361	EA	4" Diameter Eccentric Valves With Taps, Flanged.....	1,465.65		369.57
23 05 23 00-0362	EA	5" Diameter Eccentric Valves With Taps, Flanged.....	1,878.17		373.50
23 05 23 00-0363	EA	6" Diameter Eccentric Valves With Taps, Flanged.....	2,356.22		415.01
23 05 23 00-0364	EA	8" Diameter Eccentric Valves With Taps, Flanged.....	3,976.94		530.29
23 05 23 00-0365	EA	10" Diameter Eccentric Valves With Taps, Flanged.....	5,537.15		645.57
23 05 23 00-0366	EA	12" Diameter Eccentric Valves With Taps, Flanged.....	9,379.53		783.89
23 05 23 00-0367		Check Valves <small>(23 05 23)</small>			
23 05 23 00-0368		Iron Body Wafer Type Check Valve <small>(23 05 23 00-0367)</small>			
23 05 23 00-0369		Single Disk Type <small>(23 05 23 00-0368)</small>			
23 05 23 00-0370	EA	2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	505.44		187.81
		For 150 LB Rating, Add	56.83		
		For 200 LB Rating, Add	67.66		
		For 300 LB Rating, Add	81.19		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	168.74		
23 05 23 00-0371	EA	2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	590.43		188.12
		For 150 LB Rating, Add	74.46		
		For 200 LB Rating, Add	88.64		
		For 300 LB Rating, Add	106.37		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	206.73		
23 05 23 00-0372	EA	3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	724.18		220.55
		For 150 LB Rating, Add	94.11		
		For 200 LB Rating, Add	112.04		
		For 300 LB Rating, Add	134.45		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	256.88		
23 05 23 00-0373	EA	4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,070.34		369.74
		For 150 LB Rating, Add	127.47		
		For 200 LB Rating, Add	151.75		
		For 300 LB Rating, Add	182.10		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	365.82		
23 05 23 00-0374	EA	6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,599.44		518.94
		For 150 LB Rating, Add	199.66		
		For 200 LB Rating, Add	237.70		
		For 300 LB Rating, Add	285.23		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	557.58		
23 05 23 00-0375	EA	8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,202.35		596.78
		For 150 LB Rating, Add	306.41		
		For 200 LB Rating, Add	364.77		
		For 300 LB Rating, Add	437.72		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	805.24		
23 05 23 00-0376	EA	10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	3,245.22		726.51
		For 150 LB Rating, Add	489.39		
		For 200 LB Rating, Add	582.61		
		For 300 LB Rating, Add	699.13		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,231.65		
23 05 23 00-0377		Twin Disc Type <small>(23 05 23 00-0368)</small>			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0378 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	603.84	187.81
<i>For 150 LB Rating, Add</i>	77.49	
<i>For 200 LB Rating, Add</i>	92.26	
<i>For 300 LB Rating, Add</i>	110.71	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	213.02	
23 05 23 00-0379 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	678.74	188.12
<i>For 150 LB Rating, Add</i>	93.00	
<i>For 200 LB Rating, Add</i>	110.72	
<i>For 300 LB Rating, Add</i>	132.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	246.47	
23 05 23 00-0380 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	792.74	220.55
<i>For 150 LB Rating, Add</i>	108.51	
<i>For 200 LB Rating, Add</i>	129.18	
<i>For 300 LB Rating, Add</i>	155.02	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	287.73	
23 05 23 00-0381 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,119.54	369.74
<i>For 150 LB Rating, Add</i>	137.80	
<i>For 200 LB Rating, Add</i>	164.05	
<i>For 300 LB Rating, Add</i>	196.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	387.96	
23 05 23 00-0382 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,706.81	518.94
<i>For 150 LB Rating, Add</i>	222.21	
<i>For 200 LB Rating, Add</i>	264.54	
<i>For 300 LB Rating, Add</i>	317.45	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	605.90	
23 05 23 00-0383 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,357.30	596.78
<i>For 150 LB Rating, Add</i>	339.35	
<i>For 200 LB Rating, Add</i>	403.99	
<i>For 300 LB Rating, Add</i>	484.79	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	875.45	
23 05 23 00-0384 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,467.70	713.53
<i>For 150 LB Rating, Add</i>	537.43	
<i>For 200 LB Rating, Add</i>	639.80	
<i>For 300 LB Rating, Add</i>	767.76	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,333.34	
23 05 23 00-0385 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	4,528.23	882.18
<i>For 150 LB Rating, Add</i>	720.05	
<i>For 200 LB Rating, Add</i>	857.20	
<i>For 300 LB Rating, Add</i>	1,028.64	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,762.84	
23 05 23 00-0386 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	8,301.78	997.11
<i>For 150 LB Rating, Add</i>	1,464.18	
<i>For 200 LB Rating, Add</i>	1,743.08	
<i>For 300 LB Rating, Add</i>	2,091.69	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,403.43	
23 05 23 00-0387 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	11,305.71	1,169.95
<i>For 150 LB Rating, Add</i>	2,067.09	
<i>For 200 LB Rating, Add</i>	2,460.82	
<i>For 300 LB Rating, Add</i>	2,952.98	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	4,721.96	
23 05 23 00-0388 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	14,989.57	1,302.89
<i>For 150 LB Rating, Add</i>	2,806.57	
<i>For 200 LB Rating, Add</i>	3,341.16	
<i>For 300 LB Rating, Add</i>	4,009.39	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	6,339.07	
23 05 23 00-0389 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	17,810.49	1,462.44
<i>For 150 LB Rating, Add</i>	3,356.31	
<i>For 200 LB Rating, Add</i>	3,995.61	
<i>For 300 LB Rating, Add</i>	4,794.74	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	7,557.71	
23 05 23 00-0390 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	23,250.30	1,794.81
<i>For 150 LB Rating, Add</i>	4,410.08	
<i>For 200 LB Rating, Add</i>	5,250.10	
<i>For 300 LB Rating, Add</i>	6,300.12	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	9,900.16	
23 05 23 00-0391 Lift Check Valves <small>(23 05 23 00-0367)</small>		
23 05 23 00-0392 Bronze Body, Threaded, Vertical Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Watts #600 series.		
23 05 23 00-0393 EA 3/8" Lift Check Valve, Bronze, Threaded.....	124.41	14.09
23 05 23 00-0394 EA 1/2" Lift Check Valve, Bronze, Threaded.....	131.59	14.09
23 05 23 00-0395 EA 3/4" Lift Check Valve, Bronze, Threaded.....	168.53	14.79
23 05 23 00-0396 EA 1" Lift Check Valve, Bronze, Threaded.....	220.57	14.79
23 05 23 00-0397 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	303.80	18.74
23 05 23 00-0398 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	368.24	21.69
23 05 23 00-0399 EA 2" Lift Check Valve, Bronze, Threaded.....	518.81	25.63
23 05 23 00-0400 Bronze Body, Threaded, 300 LB, Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Crane 366E.		
23 05 23 00-0401 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	720.22	14.09
23 05 23 00-0402 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	876.21	14.79
23 05 23 00-0403 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,563.92	14.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0404	EA		1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,083.20	18.74
23 05 23 00-0405	EA		1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,264.17	21.69
23 05 23 00-0406	EA		2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,906.03	25.63
23 05 23 00-0407			Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0391)		
			Note: Mueller 105MAP.		
23 05 23 00-0408	EA		2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,090.13	187.75
23 05 23 00-0409	EA		2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,038.54	188.03
23 05 23 00-0410	EA		3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,141.47	220.45
23 05 23 00-0411	EA		4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,626.32	369.57
23 05 23 00-0412	EA		5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,962.48	373.50
23 05 23 00-0413	EA		6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,395.11	415.01
23 05 23 00-0414	EA		8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,089.61	530.29
23 05 23 00-0415	EA		10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,126.59	645.57
23 05 23 00-0416	EA		12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,164.80	783.89
23 05 23 00-0417	EA		14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	11,092.14	1,040.46
23 05 23 00-0418	EA		16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	12,287.09	1,144.51
23 05 23 00-0419			Bronze Body Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0420			Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0419)		
23 05 23 00-0421	EA		1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	88.09	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0422	EA		1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	83.66	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0423	EA		3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	85.82	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0424	EA		1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	89.76	14.09
			For 300 LB Rating, Add	17.28	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0425	EA		3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	114.93	14.79
			For 300 LB Rating, Add	20.94	
			For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0426	EA		1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	147.05	14.79
			For 300 LB Rating, Add	28.44	
			For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0427	EA		1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	196.25	18.74
			For 300 LB Rating, Add	39.92	
			For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0428	EA		1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	251.67	21.69
			For 300 LB Rating, Add	55.90	
			For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0429	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	312.32	25.63
			For 300 LB Rating, Add	71.87	
			For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0430	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	596.52	34.62
			For 300 LB Rating, Add	165.21	
			For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0431	EA		3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	802.00	40.20
			For 300 LB Rating, Add	234.98	
			For Work In Restricted Working Space, Add	59.85	
23 05 23 00-0432	EA		4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	908.72	45.38
			For 300 LB Rating, Add	265.90	
			For Work In Restricted Working Space, Add	68.08	
23 05 23 00-0433			125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0434	EA		1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	361.73	105.63
			For 150 LB Rating, Add	155.62	
			For 250 LB Rating, Add	297.52	
			For Work In Restricted Working Space, Add	39.86	
23 05 23 00-0435	EA		1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	405.23	123.23
			For 150 LB Rating, Add	171.46	
			For 250 LB Rating, Add	327.78	
			For Work In Restricted Working Space, Add	45.93	
23 05 23 00-0436	EA		1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	458.79	147.88
			For 150 LB Rating, Add	185.96	
			For 250 LB Rating, Add	355.51	
			For Work In Restricted Working Space, Add	55.60	
23 05 23 00-0437	EA		2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	574.39	187.75
			For 150 LB Rating, Add	230.96	
			For 250 LB Rating, Add	441.55	
			For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0438	EA		2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	632.16	188.03
			For 150 LB Rating, Add	269.55	
			For 250 LB Rating, Add	515.31	
			For Work In Restricted Working Space, Add	70.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0439 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	706.66	220.45
<i>For 150 LB Rating, Add</i>	292.92	
<i>For 250 LB Rating, Add</i>	559.99	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0440 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,128.84	369.57
<i>For 150 LB Rating, Add</i>	452.68	
<i>For 250 LB Rating, Add</i>	865.42	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0441 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,443.56	373.50
<i>For 150 LB Rating, Add</i>	664.63	
<i>For 250 LB Rating, Add</i>	1,270.61	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0442 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,653.86	415.01
<i>For 150 LB Rating, Add</i>	770.60	
<i>For 250 LB Rating, Add</i>	1,473.21	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0443 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	3,488.02	530.29
<i>For 150 LB Rating, Add</i>	1,923.91	
<i>For 250 LB Rating, Add</i>	3,678.06	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0444 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	4,658.21	645.57
<i>For 150 LB Rating, Add</i>	2,618.86	
<i>For 250 LB Rating, Add</i>	5,006.64	
<i>For Work In Restricted Working Space, Add</i>	242.09	
23 05 23 00-0445 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	6,983.98	783.89
<i>For 150 LB Rating, Add</i>	4,083.98	
<i>For 250 LB Rating, Add</i>	7,807.61	
<i>For Work In Restricted Working Space, Add</i>	293.44	
23 05 23 00-0446 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	8,100.03	1,040.46
<i>For 150 LB Rating, Add</i>	4,623.63	
<i>For 250 LB Rating, Add</i>	8,839.29	
<i>For Work In Restricted Working Space, Add</i>	390.17	
23 05 23 00-0447 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	11,333.99	1,144.51
<i>For 150 LB Rating, Add</i>	6,734.28	
<i>For 250 LB Rating, Add</i>	12,874.36	
<i>For Work In Restricted Working Space, Add</i>	429.19	
23 05 23 00-0448 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	17,151.98	1,269.37
<i>For 150 LB Rating, Add</i>	10,584.39	
<i>For 250 LB Rating, Add</i>	20,234.86	
<i>For Work In Restricted Working Space, Add</i>	476.01	
23 05 23 00-0449 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	23,452.55	1,430.64
<i>For 150 LB Rating, Add</i>	14,731.70	
<i>For 250 LB Rating, Add</i>	28,163.54	
<i>For Work In Restricted Working Space, Add</i>	536.49	
23 05 23 00-0450 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	32,523.33	1,755.78
<i>For 150 LB Rating, Add</i>	20,623.45	
<i>For 250 LB Rating, Add</i>	39,427.18	
<i>For Work In Restricted Working Space, Add</i>	658.42	
23 05 23 00-0451 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston		
Check, Swing Check Valves <small>(23 05 23 00-0367)</small>		
Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0452 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve.....	193.13	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0453 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....	228.92	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0454 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....	271.06	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0455 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....	415.95	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0456 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....	492.96	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0457 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....	663.43	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0458 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End		
Connections <small>(23 05 23 00-0367)</small>		
23 05 23 00-0459 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	78.43	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0460 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	94.22	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0461 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	108.42	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0462 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	129.61	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0463 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	146.12	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0464 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	186.77	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0465 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	256.52	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0466 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB..... <i>For Work In Restricted Working Space, Add</i>	308.01 59.85	40.20
23 05 23 00-0467 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (23 05 23 00-0367) Note: Nibco®		
23 05 23 00-0468 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	150.14 9.51	14.09
23 05 23 00-0469 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	189.91 10.83	15.50
23 05 23 00-0470 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	260.60 12.94	17.61
23 05 23 00-0471 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	344.56 14.26	18.74
23 05 23 00-0472 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	409.96 15.85	21.69
23 05 23 00-0473 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	583.18 19.01	25.63
23 05 23 00-0474 Crimped Bronze, 250 PSI, In-Line, Check Valves (23 05 23 00-0367)		
23 05 23 00-0475 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	53.54	14.09
23 05 23 00-0476 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	64.06	15.50
23 05 23 00-0477 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....	75.36	17.61
23 05 23 00-0478 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	94.14	18.74
23 05 23 00-0479 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	118.98	21.69
23 05 23 00-0480 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	183.79	25.63
23 05 23 00-0481 Diaphragm Valves (23 05 23)		
23 05 23 00-0482 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0483 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	289.24	42.14
23 05 23 00-0484 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	368.52	46.68
23 05 23 00-0485 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	401.78	57.71
23 05 23 00-0486 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	636.27	86.24
23 05 23 00-0487 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,013.54	103.74
23 05 23 00-0488 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0489 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	258.55	67.60
23 05 23 00-0490 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	297.87	70.43
23 05 23 00-0491 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	359.10	105.63
23 05 23 00-0492 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	537.22	147.88
23 05 23 00-0493 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	830.83	187.75
23 05 23 00-0494 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,035.66	188.03
23 05 23 00-0495 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,279.55	220.45
23 05 23 00-0496 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,840.91	369.57
23 05 23 00-0497 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	3,607.34	415.01
23 05 23 00-0498 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	5,553.53	530.29
23 05 23 00-0499 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0500 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	182.52	42.14
23 05 23 00-0501 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	236.50	46.68
23 05 23 00-0502 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	269.76	57.71
23 05 23 00-0503 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	456.50	86.24
23 05 23 00-0504 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	595.03	103.74



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0505 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>					
	23 05 23 00-0506	EA	1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	183.26	67.60
	23 05 23 00-0507	EA	3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	213.50	70.43
	23 05 23 00-0508	EA	1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	274.72	105.63
	23 05 23 00-0509	EA	1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	422.32	147.88
	23 05 23 00-0510	EA	2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	563.30	187.75
	23 05 23 00-0511	EA	2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	664.14	188.03
	23 05 23 00-0512	EA	3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	803.76	220.45
	23 05 23 00-0513	EA	4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,280.06	369.57
	23 05 23 00-0514	EA	6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	2,350.85	415.01
	23 05 23 00-0515	EA	8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	3,560.61	530.29
23 05 23 00-0516 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>					
	23 05 23 00-0517	EA	1" Diaphragm Valve, Cast Iron, 125 LB, Flanged	333.68	105.63
	23 05 23 00-0518	EA	1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	527.88	147.88
	23 05 23 00-0519	EA	2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	704.28	187.75
	23 05 23 00-0520	EA	2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	968.12	188.03
	23 05 23 00-0521	EA	3" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,076.17	220.45
	23 05 23 00-0522	EA	4" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,700.45	369.57
	23 05 23 00-0523	EA	6" Diaphragm Valve, Cast Iron, 125 LB, Flanged	3,207.87	415.01
	23 05 23 00-0524	EA	8" Diaphragm Valve, Cast Iron, 125 LB, Flanged	6,511.60	530.29
23 05 23 00-0525 Solenoid Valves <small>(23 05 23)</small>					
23 05 23 00-0526 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure <small>(23 05 23 00-0525)</small>					
	23 05 23 00-0527	EA	1/4" Solenoid Valve, Bronze, 150 PSI, Water	122.69	14.09
	23 05 23 00-0528	EA	1/2" Solenoid Valve, Bronze, 150 PSI, Water	141.75	14.09
	23 05 23 00-0529	EA	3/4" Solenoid Valve, Bronze, 150 PSI, Water	182.35	15.50
	23 05 23 00-0530	EA	1" Solenoid Valve, Bronze, 150 PSI, Water	263.84	17.61
	23 05 23 00-0531	EA	1-1/2" Solenoid Valve, Bronze, 150 PSI, Water	458.57	21.69
	23 05 23 00-0532	EA	2" Solenoid Valve, Bronze, 150 PSI, Water	705.47	25.63
	23 05 23 00-0533	EA	2-1/2" Solenoid Valve, Bronze, 150 PSI, Water	960.42	34.62
	23 05 23 00-0534	EA	3" Solenoid Valve, Bronze, 150 PSI, Water	1,377.73	40.20
23 05 23 00-0535 Flow Control Valves And Meters <small>(23 05 23)</small>					
23 05 23 00-0536 Conditioned Water Balancing Valves <small>(23 05 23 00-0535)</small>					
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.					
	23 05 23 00-0537	EA	1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	168.31	71.86
	23 05 23 00-0538	EA	3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	205.44	95.80
	23 05 23 00-0539	EA	1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	351.65	109.47
	23 05 23 00-0540	EA	1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	459.09	135.26
	23 05 23 00-0541	EA	1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	530.13	143.71
	23 05 23 00-0542	EA	2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	712.06	164.28
	23 05 23 00-0543	EA	2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,348.01	285.93
	23 05 23 00-0544	EA	3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,879.43	326.80
	23 05 23 00-0545	EA	3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,582.05	220.55
	23 05 23 00-0546	EA	4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,988.58	369.74
	23 05 23 00-0547	EA	6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,336.10	467.04
	23 05 23 00-0548	EA	8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	3,892.22	596.78
	23 05 23 00-0549	EA	10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	6,465.53	726.51
23 05 23 00-0550 Read Out Meters <small>(23 05 23 00-0535)</small>					
Note: For use with conditioned portable water balancing valves.					
	23 05 23 00-0551	EA	0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,073.05	
	23 05 23 00-0552	EA	0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
	23 05 23 00-0553	EA	0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
	23 05 23 00-0554	EA	0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0555 Balancing Valves <small>(23 05 23)</small>					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0556			Balancing Valves With Lever (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0557	EA		1/2" Threaded Balancing Valve With Lever.....	237.80	44.38
23 05 23 00-0558	EA		3/4" Threaded Balancing Valve With Lever.....	271.00	58.47
23 05 23 00-0559	EA		1" Threaded Balancing Valve With Lever.....	574.93	66.92
23 05 23 00-0560	EA		1-1/4" Threaded Balancing Valve With Lever.....	634.64	83.12
23 05 23 00-0561	EA		1-1/2" Threaded Balancing Valve With Lever.....	676.06	88.05
23 05 23 00-0562	EA		2" Threaded Balancing Valve With Lever.....	891.34	100.74
23 05 23 00-0563	EA		2-1/2" Flanged Balancing Valve With Lever.....	1,182.25	188.12
23 05 23 00-0564	EA		3" Flanged Balancing Valve With Lever.....	1,166.07	220.55
23 05 23 00-0565	EA		4" Flanged Balancing Valve With Lever.....	1,482.95	369.74
23 05 23 00-0566	EA		5" Flanged Balancing Valve With Lever.....	2,132.89	420.34
23 05 23 00-0567	EA		6" Flanged Balancing Valve With Lever.....	2,212.49	467.04
23 05 23 00-0568	EA		8" Flanged Balancing Valve With Lever.....	2,948.14	596.78
23 05 23 00-0569			Balancing Valves With Nut (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0570	EA		4" Flanged Balancing Valve With Nut.....	1,428.03	369.74
23 05 23 00-0571	EA		5" Flanged Balancing Valve With Nut.....	2,092.05	420.34
23 05 23 00-0572	EA		6" Flanged Balancing Valve With Nut.....	2,153.34	467.04
23 05 23 00-0573	EA		8" Flanged Balancing Valve With Nut.....	2,877.72	596.78
23 05 23 00-0574			Balancing Valves With Hand Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0575	EA		4" Flanged Balancing Valve With Hand Wheel.....	1,957.55	369.74
23 05 23 00-0576	EA		5" Flanged Balancing Valve With Hand Wheel.....	2,652.55	420.34
23 05 23 00-0577	EA		6" Flanged Balancing Valve With Hand Wheel.....	2,713.84	467.04
23 05 23 00-0578	EA		8" Flanged Balancing Valve With Hand Wheel.....	3,874.80	596.78
23 05 23 00-0579	EA		10" Flanged Balancing Valve With Hand Wheel.....	5,916.04	726.51
23 05 23 00-0580	EA		12" Flanged Balancing Valve With Hand Wheel.....	7,714.69	564.10
23 05 23 00-0581	EA		14" Flanged Balancing Valve With Hand Wheel.....	10,008.83	1,063.59
23 05 23 00-0582			Balancing Valves With Chain Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0583	EA		4" Flanged Balancing Valve With Chain Wheel.....	2,256.11	369.74
23 05 23 00-0584	EA		5" Flanged Balancing Valve With Chain Wheel.....	2,949.70	420.34
23 05 23 00-0585	EA		6" Flanged Balancing Valve With Chain Wheel.....	3,010.99	467.04
23 05 23 00-0586	EA		8" Flanged Balancing Valve With Chain Wheel.....	4,232.51	596.78
23 05 23 00-0587	EA		10" Flanged Balancing Valve With Chain Wheel.....	6,266.71	726.51
23 05 23 00-0588	EA		12" Flanged Balancing Valve With Chain Wheel.....	8,367.08	563.70
23 05 23 00-0589	EA		14" Flanged Balancing Valve With Chain Wheel.....	10,573.56	1,063.59
23 05 23 00-0590			Calibrated Balancing Valves (23 05 23 00-0555) Note: Bell & Gossett CB Series.		
23 05 23 00-0591	EA		1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S).....	110.88	14.09
23 05 23 00-0592	EA		3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S).....	133.22	15.50
23 05 23 00-0593	EA		1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S).....	162.48	17.61
23 05 23 00-0594	EA		1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S).....	216.61	18.74
23 05 23 00-0595	EA		1" Threaded Calibrated Balancing Valve (CB-1).....	171.47	17.61
23 05 23 00-0596	EA		1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4).....	232.15	18.74
23 05 23 00-0597	EA		1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2).....	269.50	21.70
23 05 23 00-0598	EA		2" Threaded Calibrated Balancing Valve (CB-2).....	357.08	25.64
23 05 23 00-0599	EA		2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2).....	645.80	37.61
23 05 23 00-0600	EA		3" Threaded Calibrated Balancing Valve (CB-3).....	891.41	43.68
23 05 23 00-0601	EA		2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F).....	861.37	204.29
23 05 23 00-0602	EA		3" Flanged Calibrated Balancing Valve (CB-3F).....	1,219.84	239.52
23 05 23 00-0603	EA		4" Flanged Calibrated Balancing Valve (CB-4F).....	1,922.15	401.53
23 05 23 00-0604	EA		5" Flanged Calibrated Balancing Valve (CB-5F).....	2,708.39	456.48
23 05 23 00-0605	EA		6" Flanged Calibrated Balancing Valve (CB-6F).....	3,519.19	507.20
23 05 23 00-0606	EA		8" Flanged Calibrated Balancing Valve (CB-8F).....	6,223.32	648.09
23 05 23 00-0607	EA		10" Flanged Calibrated Balancing Valve (CB-10F).....	8,592.22	744.51
23 05 23 00-0608	EA		12" Flanged Calibrated Balancing Valve (CB-12F).....	17,704.94	904.05
23 05 23 00-0609	EA		4" Grooved Calibrated Balancing Valve (CB-4G).....	2,077.00	48.50
23 05 23 00-0610	EA		5" Grooved Calibrated Balancing Valve (CB-5G).....	2,393.94	58.79
23 05 23 00-0611	EA		6" Grooved Calibrated Balancing Valve (CB-6G).....	3,179.90	75.39
23 05 23 00-0612	EA		8" Grooved Calibrated Balancing Valve (CB-8G).....	5,925.13	95.68
23 05 23 00-0613	EA		10" Grooved Calibrated Balancing Valve (CB-10G).....	7,952.76	107.21
23 05 23 00-0614	EA		12" Grooved Calibrated Balancing Valve (CB-12G).....	16,321.02	130.72
23 05 23 00-0615			Butterfly Valves (23 05 23)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0616 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
<i>Note: With on-off handle</i>		
23 05 23 00-0617 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	366.83	187.75
<i>For 200 PSI, Add</i>	<i>63.40</i>	
<i>For 175 PSI, Add</i>	<i>23.12</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>70.42</i>	
23 05 23 00-0618 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	375.54	188.03
<i>For 200 PSI, Add</i>	<i>67.09</i>	
<i>For 175 PSI, Add</i>	<i>24.46</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>70.73</i>	
23 05 23 00-0619 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	426.42	220.45
<i>For 200 PSI, Add</i>	<i>72.25</i>	
<i>For 175 PSI, Add</i>	<i>26.34</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>82.77</i>	
23 05 23 00-0620 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	652.05	369.57
<i>For 200 PSI, Add</i>	<i>90.68</i>	
<i>For 175 PSI, Add</i>	<i>33.06</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>138.94</i>	
23 05 23 00-0621 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	789.40	415.01
<i>For 200 PSI, Add</i>	<i>129.01</i>	
<i>For 175 PSI, Add</i>	<i>47.04</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>156.19</i>	
23 05 23 00-0622 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	905.07	461.12
<i>For 200 PSI, Add</i>	<i>157.77</i>	
<i>For 175 PSI, Add</i>	<i>57.52</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>172.92</i>	
23 05 23 00-0623 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,153.30	530.29
<i>For 200 PSI, Add</i>	<i>237.39</i>	
<i>For 175 PSI, Add</i>	<i>86.55</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>197.62</i>	
23 05 23 00-0624 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,765.35	645.57
<i>For 200 PSI, Add</i>	<i>460.03</i>	
<i>For 175 PSI, Add</i>	<i>167.72</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>242.09</i>	
23 05 23 00-0625 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,199.17	783.89
<i>For 200 PSI, Add</i>	<i>586.10</i>	
<i>For 175 PSI, Add</i>	<i>213.68</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>293.44</i>	
23 05 23 00-0626 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0627 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	597.21	187.75
<i>For Work In Restricted Working Space, Add</i>	<i>70.42</i>	
23 05 23 00-0628 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	601.32	188.03
<i>For Work In Restricted Working Space, Add</i>	<i>70.73</i>	
23 05 23 00-0629 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	659.88	220.45
<i>For Work In Restricted Working Space, Add</i>	<i>82.77</i>	
23 05 23 00-0630 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	896.25	369.57
<i>For Work In Restricted Working Space, Add</i>	<i>138.94</i>	
23 05 23 00-0631 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,059.72	415.01
<i>For Work In Restricted Working Space, Add</i>	<i>156.19</i>	
23 05 23 00-0632 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,173.77	461.12
<i>For Work In Restricted Working Space, Add</i>	<i>172.92</i>	
23 05 23 00-0633 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,432.84	530.29
<i>For Work In Restricted Working Space, Add</i>	<i>197.62</i>	
23 05 23 00-0634 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,806.82	645.57
<i>For Work In Restricted Working Space, Add</i>	<i>242.09</i>	
23 05 23 00-0635 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,431.10	783.89
<i>For Work In Restricted Working Space, Add</i>	<i>293.44</i>	
23 05 23 00-0636 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0637 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,894.29	975.43
<i>For 200 PSI, Add</i>	<i>933.74</i>	
<i>For 175 PSI, Add</i>	<i>324.21</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>390.17</i>	
23 05 23 00-0638 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,915.26	1,144.51
<i>For 200 PSI, Add</i>	<i>1,254.46</i>	
<i>For 175 PSI, Add</i>	<i>435.58</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>429.19</i>	
23 05 23 00-0639 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	6,766.87	1,274.56
<i>For 200 PSI, Add</i>	<i>1,863.82</i>	
<i>For 175 PSI, Add</i>	<i>647.16</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>476.88</i>	
23 05 23 00-0640 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,635.86	1,430.64
<i>For 200 PSI, Add</i>	<i>2,465.13</i>	
<i>For 175 PSI, Add</i>	<i>855.95</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>536.49</i>	
23 05 23 00-0641 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	11,550.80	1,755.78
<i>For 200 PSI, Add</i>	<i>3,365.94</i>	
<i>For 175 PSI, Add</i>	<i>1,168.73</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>660.29</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0642 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	23,646.16	2,809.73
For 200 PSI, Add	7,225.25	
For 175 PSI, Add	2,508.77	
For Work In Restricted Working Space, Add	1,072.81	
23 05 23 00-0643 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	29,970.47	3,831.45
For 200 PSI, Add	9,180.16	
For 175 PSI, Add	3,187.56	
For Work In Restricted Working Space, Add	1,341.01	
23 05 23 00-0644 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	36,639.21	5,619.46
For 200 PSI, Add	10,714.41	
For 175 PSI, Add	3,720.28	
For Work In Restricted Working Space, Add	2,063.09	
23 05 23 00-0645 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	44,641.82	7,024.32
For 200 PSI, Add	12,852.64	
For 175 PSI, Add	4,462.72	
For Work In Restricted Working Space, Add	2,682.02	
23 05 23 00-0646 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	53,988.38	8,429.19
For 200 PSI, Add	15,412.80	
For 175 PSI, Add	5,351.67	
For Work In Restricted Working Space, Add	3,352.52	
23 05 23 00-0647 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB ^(23 05 23 00-0615)		
Note: (Milwaukee Valve Company BB-SC 100)		
23 05 23 00-0648 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	509.10	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0649 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	556.37	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0650 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	696.52	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0651 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	872.34	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0652 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	1,170.82	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0653 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB ^(23 05 23 00-0615)		
Note: (Milwaukee Valve Company BB-S02)		
23 05 23 00-0654 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	762.33	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0655 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	825.88	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0656 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	987.56	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0657 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,182.33	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0658 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,513.62	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 29 Hangers and Supports for HVAC Piping and Equipment ^(23 05)		
23 05 29 00-0001 Hangers And Supports ^(23 05 29)		
23 05 29 00-0002 Clevis Hangers ^(23 05 29 00-0001)		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) ^(23 05 29 00-0002)		
Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100)	25.69	11.67
For Work In Restricted Working Space, Add	7.00	
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100)	28.29	12.97
For Work In Restricted Working Space, Add	7.78	
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100)	29.73	12.97
For Work In Restricted Working Space, Add	8.19	
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	30.85	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	31.15	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100)	32.52	14.27
For Work In Restricted Working Space, Add	8.64	
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	35.67	14.78
For Work In Restricted Working Space, Add	8.90	
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100)	38.07	15.56
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	39.80	17.09
For Work In Restricted Working Space, Add	9.77	
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100)	43.68	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100)	56.04	21.72
For Work In Restricted Working Space, Add	13.03	
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100)	67.42	25.94
For Work In Restricted Working Space, Add	15.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	90.61 19.45	32.42
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	132.37 25.94	44.09
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	155.11 29.18	48.63
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	193.00 33.46	54.47
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	240.28 38.90	64.84
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	299.49 48.63	81.05
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	483.20 58.35	97.26
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	736.88 68.08	113.46
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	31.91 7.00	11.67
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	34.51 7.78	12.97
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	36.10 8.19	12.97
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	37.34 8.42	14.03
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	38.14 8.42	14.03
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	39.11 8.64	14.27
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	43.71 8.90	14.78
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	45.85 9.15	15.56
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	51.42 10.37	18.16
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	56.67 10.37	18.16
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	92.67 13.03	21.72
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	114.80 15.56	25.94
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	136.78 19.45	32.42
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	25.46 7.00	11.67
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	28.11 7.78	12.97
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	29.69 8.19	12.97
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.49 8.42	14.03
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.67 8.42	14.03
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	31.55 8.64	14.27
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	34.39 8.90	14.78
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	35.90 9.15	15.56
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	40.46 10.37	18.16
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	41.70 10.37	18.16
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	35.89 7.78	12.97
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	37.33 8.19	12.97
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	38.09 8.42	14.03
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	39.33 8.42	14.03
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	42.16 8.64	14.27
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	45.17 8.90	14.78

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	47.39	15.56
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	56.85	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	71.72	21.72
For Work In Restricted Working Space, Add	13.03	
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	88.46	25.94
For Work In Restricted Working Space, Add	15.56	
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	125.11	32.42
For Work In Restricted Working Space, Add	19.45	
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	175.58	44.09
For Work In Restricted Working Space, Add	25.94	
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	197.22	48.63
For Work In Restricted Working Space, Add	29.18	
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	43.62	14.27
For Work In Restricted Working Space, Add	8.64	
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	46.54	14.78
For Work In Restricted Working Space, Add	8.90	
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	48.94	15.56
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	54.20	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	57.29	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	71.15	21.72
For Work In Restricted Working Space, Add	13.03	
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	83.07	25.94
For Work In Restricted Working Space, Add	15.56	
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	110.18	32.42
For Work In Restricted Working Space, Add	19.45	
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072)		
Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	23.47	10.24
For Work In Restricted Working Space, Add	6.14	
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	25.72	11.36
For Work In Restricted Working Space, Add	6.82	
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	28.22	12.63
For Work In Restricted Working Space, Add	7.57	
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	31.13	14.02
For Work In Restricted Working Space, Add	8.41	
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	32.72	14.72
For Work In Restricted Working Space, Add	8.84	
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	35.05	15.43
For Work In Restricted Working Space, Add	9.26	
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	40.30	16.13
For Work In Restricted Working Space, Add	9.68	
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	42.09	16.83
For Work In Restricted Working Space, Add	10.10	
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	50.15	18.93
For Work In Restricted Working Space, Add	11.36	
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072)		
Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	27.31	12.97
For Work In Restricted Working Space, Add	7.78	
For 304 Stainless Steel, Add	9.04	
For 316 Stainless Steel, Add	11.65	
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	28.80	12.97
For Work In Restricted Working Space, Add	8.19	
For 304 Stainless Steel, Add	9.90	
For 316 Stainless Steel, Add	12.75	
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	30.31	14.27
For Work In Restricted Working Space, Add	8.64	
For 304 Stainless Steel, Add	9.90	
For 316 Stainless Steel, Add	12.75	
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	32.19	15.56
For Work In Restricted Working Space, Add	9.15	
For 304 Stainless Steel, Add	11.09	
For 316 Stainless Steel, Add	14.28	
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	36.26	18.16
For Work In Restricted Working Space, Add	10.37	
For 304 Stainless Steel, Add	11.09	
For 316 Stainless Steel, Add	14.28	
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	38.82	18.16
For Work In Restricted Working Space, Add	11.12	
For 304 Stainless Steel, Add	11.68	
For 316 Stainless Steel, Add	15.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	42.78 11.97 19.01 24.48	19.45
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	46.22 12.97 19.80 25.50	22.04
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	51.35 14.20 26.53 34.17	23.66
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	55.89 15.56 26.53 34.17	25.94
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.71 17.51 55.18 71.06	29.18
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.32 19.45 55.97 72.08	32.42
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	87.89 23.34 66.53 85.68	38.90
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	29.08 7.78 20.72 26.69	12.97
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.44 8.19 20.72 26.69	12.97
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	31.95 8.64 20.72 26.69	14.27
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	33.65 9.15 20.72 26.69	15.56
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	37.98 10.37 22.44 28.90	18.16
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	40.45 11.12 22.44 28.90	18.16
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	48.82 11.97 58.87 75.82	19.45
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	54.27 12.97 72.93 93.93	22.04
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	59.26 14.20 78.74 101.41	23.66
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.39 15.56 95.83 123.42	25.94
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.07 17.51 97.15 125.12	29.18
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	86.15 19.45 140.65 181.14	32.42

23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)

23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)

Note: Excludes rod and nuts. Type 41.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114).....	40.24	10.38
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	6.23	
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114)	44.30	11.68
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	7.01	
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114).....	49.34	13.62
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	8.18	
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114)	56.76	15.57
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	9.34	
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114).....	78.20	17.51
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	10.51	
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114).....	70.03	19.46
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	11.68	
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114).....	87.09	23.35
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	14.01	
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114).....	117.15	27.25
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	16.35	
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114).....	138.89	32.43
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	19.46	
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110)		
Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	60.10	18.32
For Work In Restricted Working Space, Add	10.57	
For 304 Stainless Steel, Add	164.21	
For 316 Stainless Steel, Add	211.48	
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	62.63	18.88
For Work In Restricted Working Space, Add	11.33	
For 304 Stainless Steel, Add	164.21	
For 316 Stainless Steel, Add	211.48	
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	68.00	19.73
For Work In Restricted Working Space, Add	12.08	
For 304 Stainless Steel, Add	183.15	
For 316 Stainless Steel, Add	235.88	
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	79.21	21.14
For Work In Restricted Working Space, Add	12.68	
For 304 Stainless Steel, Add	243.80	
For 316 Stainless Steel, Add	313.99	
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	83.90	23.95
For Work In Restricted Working Space, Add	14.09	
For 304 Stainless Steel, Add	243.80	
For 316 Stainless Steel, Add	313.99	
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	94.70	25.78
For Work In Restricted Working Space, Add	15.47	
For 304 Stainless Steel, Add	284.66	
For 316 Stainless Steel, Add	366.61	
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	109.92	28.18
For Work In Restricted Working Space, Add	16.91	
For 304 Stainless Steel, Add	353.50	
For 316 Stainless Steel, Add	455.26	
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	150.61	35.22
For Work In Restricted Working Space, Add	21.14	
For 304 Stainless Steel, Add	529.06	
For 316 Stainless Steel, Add	681.36	
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	189.43	47.91
For Work In Restricted Working Space, Add	28.18	
For 304 Stainless Steel, Add	630.30	
For 316 Stainless Steel, Add	811.75	
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	246.06	52.83
For Work In Restricted Working Space, Add	31.70	
For 304 Stainless Steel, Add	926.57	
For 316 Stainless Steel, Add	1,193.32	
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	510.20	60.58
For Work In Restricted Working Space, Add	36.35	
For 304 Stainless Steel, Add	2,567.66	
For 316 Stainless Steel, Add	3,306.84	
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	640.28	70.45
For Work In Restricted Working Space, Add	42.27	
For 304 Stainless Steel, Add	3,295.97	
For 316 Stainless Steel, Add	4,244.82	
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120).....	58.46	18.32
For Work In Restricted Working Space, Add	10.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	62.99 11.33	18.88
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	66.06 12.08	19.73
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	75.15 12.68	21.14
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	83.73 14.09	23.95
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	91.52 15.47	25.78
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	112.00 16.91	28.18
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	145.66 21.14	35.22
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	188.28 28.18	47.91
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	243.06 31.70	52.83
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	265.26 36.35	60.58
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	319.77 42.27	70.45
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	430.82 52.83	88.05
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	533.00 63.40	105.67
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	66.11 10.57	18.32
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	74.30 11.33	18.88
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	78.12 12.08	19.73
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	82.53 12.68	21.14
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	99.19 14.09	23.95
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	112.46 15.47	25.78
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	130.91 16.91	28.18
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	184.59 21.14	35.22
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	230.26 28.18	47.91
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	266.30 31.70	52.83
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	376.53 36.35	60.58
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	451.36 42.27	70.45
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	512.70 52.83	88.05
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	66.55 10.57	18.32
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	74.69 11.33	18.88
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	78.78 12.08	19.73
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	81.95 12.68	21.14
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	103.66 14.09	23.95
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	117.72 15.47	25.78
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	137.19 16.91	28.18
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	194.32 21.14	35.22
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	241.92 28.18	47.91
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	279.95 31.70	52.83
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	398.36 36.35	60.58
23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)		
Note: Includes bolts and weldless eye nuts.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0176			Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175) Note: Type 4.		
23 05 29 00-0177	EA		1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.62 5.05	8.41
23 05 29 00-0178	EA		3/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.90 5.13	8.55
23 05 29 00-0179	EA		1" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.22 5.22	8.69
23 05 29 00-0180	EA		1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.27 5.30	8.83
23 05 29 00-0181	EA		1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.54 5.38	8.97
23 05 29 00-0182	EA		2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	27.16 5.47	9.11
23 05 29 00-0183	EA		2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	28.25 5.64	9.39
23 05 29 00-0184	EA		3" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	29.91 5.81	9.67
23 05 29 00-0185	EA		3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	34.57 5.89	9.82
23 05 29 00-0186	EA		4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	40.18 7.57	12.63
23 05 29 00-0187	EA		5" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	57.51 10.10	16.83
23 05 29 00-0188	EA		6" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	78.66 12.62	21.04
23 05 29 00-0189	EA		8" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	92.56 14.72	24.54
23 05 29 00-0190	EA		10" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	134.48 16.83	28.04
23 05 29 00-0191	EA		12" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	182.96 18.51	30.85
23 05 29 00-0192	EA		14" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	294.88 20.19	33.65
23 05 29 00-0193	EA		16" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	319.63 21.88	36.46
23 05 29 00-0194	EA		18" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	518.04 23.56	39.26
23 05 29 00-0195	EA		20" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	598.85 25.24	42.07
23 05 29 00-0196	EA		24" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	779.97 27.77	46.28
23 05 29 00-0197			Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)		
23 05 29 00-0198	EA		3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	45.81 5.40	9.07
23 05 29 00-0199	EA		4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	60.08 5.40	9.07
23 05 29 00-0200	EA		5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	65.94 5.64	9.40
23 05 29 00-0201	EA		6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	105.12 5.87	9.73
23 05 29 00-0202	EA		8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	114.36 6.22	10.37
23 05 29 00-0203	EA		10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	195.58 6.20	10.37
23 05 29 00-0204	EA		12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	316.34 7.00	11.67
23 05 29 00-0205	EA		14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	401.28 7.78	12.97
23 05 29 00-0206	EA		16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	436.38 9.34	15.56
23 05 29 00-0207	EA		18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,355.85 10.89	18.16
23 05 29 00-0208	EA		20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,558.44 11.67	19.45
23 05 29 00-0209	EA		24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,996.04 12.45	20.74
23 05 29 00-0210			Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175) Note: Type 8.		
23 05 29 00-0211	EA		1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	22.81 4.67	7.78
23 05 29 00-0212	EA		3/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	23.74 4.75	7.91
23 05 29 00-0213	EA		1" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	24.08 4.82	8.04
23 05 29 00-0214	EA		1-1/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	26.02 4.90	8.17
23 05 29 00-0215	EA		1-1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	27.04 4.98	8.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	27.69	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	28.86	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	30.59	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	33.59	9.07
<i>For Work In Restricted Working Space, Add</i>	5.45	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	40.80	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	52.77	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	66.92	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	91.25	22.70
<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	119.74	25.94
<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	144.72	28.53
<i>For Work In Restricted Working Space, Add</i>	17.12	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	194.15	31.12
<i>For Work In Restricted Working Space, Add</i>	18.67	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	368.55	33.71
<i>For Work In Restricted Working Space, Add</i>	20.23	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.04	7.78
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.66	7.91
<i>For Work In Restricted Working Space, Add</i>	4.75	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	42.33	8.04
<i>For Work In Restricted Working Space, Add</i>	4.82	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	45.24	8.17
<i>For Work In Restricted Working Space, Add</i>	4.90	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	51.07	8.30
<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	54.24	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	58.69	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	64.48	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	87.29	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	89.87	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	95.40	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	104.74	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	111.80	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	135.23	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	419.39	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	561.79	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	669.41	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	974.98	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,343.64	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	82.97	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	89.48	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	156.20	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	173.66	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	249.30	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	382.15	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	512.57	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	610.06	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	891.62	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	1,220.25	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260)		
Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)	37.76	11.92
<i>For Work In Restricted Working Space, Add</i>	7.15	
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)	40.00	12.63
<i>For Work In Restricted Working Space, Add</i>	7.57	
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)	43.51	14.02
<i>For Work In Restricted Working Space, Add</i>	8.41	
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	46.86	14.72
<i>For Work In Restricted Working Space, Add</i>	8.84	
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)	50.61	15.43
<i>For Work In Restricted Working Space, Add</i>	9.26	
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	62.36	16.13
<i>For Work In Restricted Working Space, Add</i>	9.68	
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)	68.38	16.83
<i>For Work In Restricted Working Space, Add</i>	10.10	
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)	90.86	18.93
<i>For Work In Restricted Working Space, Add</i>	11.36	
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)	115.51	23.84
<i>For Work In Restricted Working Space, Add</i>	14.30	
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)	154.28	28.04
<i>For Work In Restricted Working Space, Add</i>	16.83	
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260)		
Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	25.97	9.86
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	28.60	12.67
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	53.96	14.09
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	63.85	16.91
<i>For Work In Restricted Working Space, Add</i>	10.06	
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260)		
Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	25.97	10.56
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	28.60	11.97
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	53.96	14.79
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23 05 29 00-0291)		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	16.76	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	17.49 4.45	8.45
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	18.32 4.70	8.45
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	19.36 4.97	8.45
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	20.49 5.28	9.86
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	23.52 5.63	9.86
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	28.69 6.04	9.86
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	36.67 6.50	9.86
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	43.41 7.61	12.67
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	53.06 8.45	14.09
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	66.04 9.29	15.50
23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.47 2.11	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.90 2.22	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	8.62 2.32	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.38 2.43	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.97 2.54	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	10.81 2.75	
23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	3.53 0.70	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.19 0.75	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.51 0.81	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	4.85 0.88	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.21 0.96	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.81 1.06	
23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)		
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0318) Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.57 23.89 9.34	15.56
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.76 24.33 9.34	15.56
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.40 26.06 9.34	15.56
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318) Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	361.64 66.10 9.34	15.56
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	423.78 78.53 9.34	15.56
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.48 103.87 9.34	15.56
23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0328			Pipe Alignment Guide, 1" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0329	EA		1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....	651.31	24.64
23 05 29 00-0330	EA		3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....	652.60	25.28
23 05 29 00-0331	EA		1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....	653.90	25.94
23 05 29 00-0332	EA		1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....	655.20	26.58
23 05 29 00-0333	EA		1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	715.14	27.23
23 05 29 00-0334	EA		2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	729.44	29.83
23 05 29 00-0335	EA		2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	731.38	30.80
23 05 29 00-0336	EA		3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	733.33	31.77
23 05 29 00-0337	EA		4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	776.13	33.71
23 05 29 00-0338	EA		5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	904.71	42.80
23 05 29 00-0339	EA		6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	922.86	51.87
23 05 29 00-0340	EA		8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	1,039.43	64.84
23 05 29 00-0341	EA		10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	1,926.52	77.81
23 05 29 00-0342	EA		12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	2,933.62	103.74
23 05 29 00-0343	EA		14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	3,609.77	129.67
23 05 29 00-0344	EA		16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	4,344.56	145.23
23 05 29 00-0345	EA		18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	4,685.38	162.10
23 05 29 00-0346	EA		20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	4,978.01	185.44
23 05 29 00-0347	EA		24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	6,276.43	194.51
23 05 29 00-0348			Pipe Alignment Guide, 1-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0349	EA		1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	652.60	25.28
23 05 29 00-0350	EA		3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	712.54	25.94
23 05 29 00-0351	EA		1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	713.84	26.58
23 05 29 00-0352	EA		1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	715.14	27.23
23 05 29 00-0353	EA		1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	716.43	27.88
23 05 29 00-0354	EA		2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	730.74	30.47
23 05 29 00-0355	EA		2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	732.68	31.45
23 05 29 00-0356	EA		3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	773.53	32.42
23 05 29 00-0357	EA		4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	777.41	34.37
23 05 29 00-0358	EA		5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	906.65	43.76
23 05 29 00-0359	EA		6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	925.45	53.17
23 05 29 00-0360	EA		8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	1,042.68	66.46
23 05 29 00-0361	EA		10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	1,930.41	79.75
23 05 29 00-0362	EA		12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	2,938.81	106.33
23 05 29 00-0363	EA		14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	3,616.25	132.92
23 05 29 00-0364	EA		16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	4,352.35	149.13
23 05 29 00-0365	EA		18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	4,693.16	165.99
23 05 29 00-0366	EA		20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	4,987.09	189.97
23 05 29 00-0367	EA		24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	6,286.16	199.38
23 05 29 00-0368			Pipe Alignment Guide, 2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0369	EA		1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	712.54	25.94
23 05 29 00-0370	EA		3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	722.96	26.58
23 05 29 00-0371	EA		1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	724.26	27.23
23 05 29 00-0372	EA		1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	725.55	27.88
23 05 29 00-0373	EA		1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	726.84	28.53
23 05 29 00-0374	EA		2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....	770.93	31.12
23 05 29 00-0375	EA		2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....	773.53	32.42
23 05 29 00-0376	EA		3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....	775.15	33.23
23 05 29 00-0377	EA		4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....	889.14	35.01
23 05 29 00-0378	EA		5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....	908.60	44.74
23 05 29 00-0379	EA		6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....	1,018.69	54.47
23 05 29 00-0380	EA		8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....	1,146.30	68.08
23 05 29 00-0381	EA		10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	1,934.30	81.69
23 05 29 00-0382	EA		12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	2,943.99	108.93
23 05 29 00-0383	EA		14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	3,622.74	136.16
23 05 29 00-0384	EA		16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	4,359.83	152.87
23 05 29 00-0385	EA		18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	4,701.59	170.19
23 05 29 00-0386	EA		20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	4,996.16	194.51
23 05 29 00-0387	EA		24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	6,295.89	204.24
23 05 29 00-0388			Pipe Alignment Guide, 2-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0389	EA		1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	722.96	26.58
23 05 29 00-0390	EA		3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	763.16	27.23
23 05 29 00-0391	EA		1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	764.45	27.88
23 05 29 00-0392	EA		1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	765.74	28.53
23 05 29 00-0393	EA		1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	767.04	29.18
23 05 29 00-0394	EA		2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	772.23	31.77
23 05 29 00-0395	EA		2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	775.15	33.23
23 05 29 00-0396	EA		3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	887.20	34.03
23 05 29 00-0397	EA		4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	890.44	35.66
23 05 29 00-0398	EA		5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	1,000.54	45.38
23 05 29 00-0399	EA		6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	1,021.28	55.76
23 05 29 00-0400	EA		8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	1,910.31	69.70
23 05 29 00-0401	EA		10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	2,893.42	83.64



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 05 29 00-0402 EA 12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	3,573.46	111.52
				23 05 29 00-0403 EA 14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	3,629.84	139.40
				23 05 29 00-0404 EA 16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	4,367.91	156.90
				23 05 29 00-0405 EA 18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	4,710.02	174.41
				23 05 29 00-0406 EA 20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	5,005.89	199.38
				23 05 29 00-0407 EA 24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	6,306.26	209.43
23 05 29 00-0408				Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)		
				23 05 29 00-0409 EA 1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....	763.16	27.23
				23 05 29 00-0410 EA 3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....	764.45	27.88
				23 05 29 00-0411 EA 1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....	765.74	28.53
				23 05 29 00-0412 EA 1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....	767.04	29.18
				23 05 29 00-0413 EA 1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....	768.34	29.83
				23 05 29 00-0414 EA 2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....	883.96	32.42
				23 05 29 00-0415 EA 2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....	887.20	34.03
				23 05 29 00-0416 EA 3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....	889.14	35.01
				23 05 29 00-0417 EA 4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....	982.90	36.57
				23 05 29 00-0418 EA 5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....	1,003.12	46.68
				23 05 29 00-0419 EA 6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....	1,124.26	57.05
				23 05 29 00-0420 EA 8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....	1,913.55	71.32
				23 05 29 00-0421 EA 10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....	2,897.31	85.59
				23 05 29 00-0422 EA 12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....	3,578.64	114.12
				23 05 29 00-0423 EA 14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....	3,636.33	142.64
				23 05 29 00-0424 EA 16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....	4,375.69	160.80
				23 05 29 00-0425 EA 18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....	4,717.80	178.30
				23 05 29 00-0426 EA 20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....	5,015.62	204.24
				23 05 29 00-0427 EA 24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....	6,316.63	214.61
23 05 29 00-0428				Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)		
				23 05 29 00-0429 EA 1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....	764.45	27.88
				23 05 29 00-0430 EA 3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....	876.17	28.53
				23 05 29 00-0431 EA 1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....	877.47	29.18
				23 05 29 00-0432 EA 1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4).....	878.77	29.83
				23 05 29 00-0433 EA 1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2).....	880.07	30.47
				23 05 29 00-0434 EA 2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....	885.58	33.23
				23 05 29 00-0435 EA 2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2).....	888.89	34.88
				23 05 29 00-0436 EA 3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....	981.53	35.89
				23 05 29 00-0437 EA 4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....	984.97	37.61
				23 05 29 00-0438 EA 5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....	1,106.10	47.98
				23 05 29 00-0439 EA 6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....	1,887.62	58.35
				23 05 29 00-0440 EA 8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....	2,872.03	72.94
				23 05 29 00-0441 EA 10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....	3,526.49	87.73
				23 05 29 00-0442 EA 12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....	4,287.50	116.71
				23 05 29 00-0443 EA 14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....	4,346.51	146.21
				23 05 29 00-0444 EA 16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....	4,705.04	164.69
				23 05 29 00-0445 EA 18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....	4,972.82	182.84
				23 05 29 00-0446 EA 20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....	6,304.96	208.78
23 05 29 00-0447				Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)		
				23 05 29 00-0448 EA 1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	876.17	28.53
				23 05 29 00-0449 EA 3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	877.47	29.18
				23 05 29 00-0450 EA 1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	878.77	29.83
				23 05 29 00-0451 EA 1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	880.07	30.47
				23 05 29 00-0452 EA 1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	881.36	31.12
				23 05 29 00-0453 EA 2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	977.84	34.03
				23 05 29 00-0454 EA 2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	981.08	35.66
				23 05 29 00-0455 EA 3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	983.28	36.76
				23 05 29 00-0456 EA 4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	1,087.29	38.58
				23 05 29 00-0457 EA 5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	1,869.46	49.28
				23 05 29 00-0458 EA 6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	1,890.21	59.65
				23 05 29 00-0459 EA 8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	2,875.27	74.56
				23 05 29 00-0460 EA 10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	3,531.28	90.12
				23 05 29 00-0461 EA 12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	4,293.34	119.63
				23 05 29 00-0462 EA 14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	4,659.45	149.13
				23 05 29 00-0463 EA 16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	4,944.30	168.57
				23 05 29 00-0464 EA 18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	6,263.47	188.03
23 05 29 00-0465				Sway Bracing For No Hub Pipe (23 05 29 00-0001)		
				23 05 29 00-0466 EA 1-1/2" Sway Bracing.....	148.10	17.11
				For Work In Restricted Working Space, Add	10.24	
				23 05 29 00-0467 EA 2" Sway Bracing.....	152.71	18.03
				For Work In Restricted Working Space, Add	10.81	
				23 05 29 00-0468 EA 3" Sway Bracing.....	158.29	19.06
				For Work In Restricted Working Space, Add	11.44	
				23 05 29 00-0469 EA 4" Sway Bracing.....	179.65	21.66
				For Work In Restricted Working Space, Add	12.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0470 EA 6" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	263.81 19.45	32.42
23 05 29 00-0471 EA 8" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	293.53 24.32	40.46
23 05 29 00-0472 EA 10" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	333.24 32.42	54.08
23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001) Note: Heights listed is total for base and adjustable saddle		
23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	262.34 7.78	12.97
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	269.27 8.56	14.27
23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	547.33 9.73	16.21
23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	657.53 10.89	18.16
23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	667.36 12.06	20.10
23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	737.80 13.61	22.70
23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	873.50 14.78	24.64
23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	885.21 15.95	26.58
23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	900.24 17.51	29.18
23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	940.20 19.06	31.77
23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,011.14 21.01	35.01
23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,044.28 23.34	38.90
23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,268.02 25.68	42.80
23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,389.36 28.79	47.98
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,941.63 31.90	53.17
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	2,411.67 35.01	58.35
23 05 29 00-0490 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	2,911.68 38.12	63.54
23 05 29 00-0491 Channel Mounted Cushion Clamp (23 05 29 00-0001) Note: Includes fastening into channel.		
23 05 29 00-0492 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	15.92	5.84
23 05 29 00-0493 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	16.77	6.48
23 05 29 00-0494 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	18.64	6.81
23 05 29 00-0495 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	19.99	7.13
23 05 29 00-0496 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	22.35	7.78
23 05 29 00-0497 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	25.08	8.11
23 05 29 00-0498 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	32.02	8.43
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	35.45	9.07
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	43.71	10.37
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	67.00	11.67
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe..... Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.65	
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe..... Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw	4.75	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0505	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	4.83	
		Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0506	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	5.01	
		Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0507	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	4.79	
		Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0508	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	5.12	
		Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0509	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....	4.92	
		Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0510	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....	5.31	
		Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0511	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe	5.33	
		Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0512	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe	5.10	
		Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0513	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe	5.28	
		Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0514	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe	5.84	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0515	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe	5.30	
		Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0516	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe	5.66	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0517	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe	6.25	
		Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0518	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....	6.31	
		Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0519	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....	6.63	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0520	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe	7.28	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0521	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe	7.48	
		Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0522	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe	8.46	
		Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0523	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe	8.53	
		Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0524	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....	7.68	
		Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0525	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....	8.46	
		Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0526	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe	8.92	
		Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0527	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe	7.93	
		Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0528	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe	8.40	
		Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0529	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe	10.22	
		Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0530	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	7.88	
		Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0531	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	8.56	
		Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0532	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	10.62	
		Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0533		Rooftop Pipe Supports <small>(23 05 29 00-0001)</small>		
		Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0534		Rooftop Support Base <small>(23 05 29 00-0533)</small>		
23 05 29 00-0535	EA	4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....	42.63	10.56
23 05 29 00-0536	EA	4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....	59.18	14.09
23 05 29 00-0537		Rooftop Support Base With 14 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0538	EA	5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....	47.98	10.56
23 05 29 00-0539	EA	5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....	67.88	14.09
23 05 29 00-0540	EA	5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....	122.67	17.61
23 05 29 00-0541	EA	5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....	168.54	21.13
23 05 29 00-0542	EA	5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....	231.92	24.65
23 05 29 00-0543	EA	5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....	245.28	28.17
23 05 29 00-0544		Rooftop Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0545	EA	6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	82.09	14.09
23 05 29 00-0546	EA	6-7/16" x 6" x 20.2" Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....	129.01	17.61
23 05 29 00-0547	EA	6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....	171.08	21.13
23 05 29 00-0548	EA	6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....	232.07	24.65
23 05 29 00-0549	EA	6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....	258.98	21.13

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0550 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	136.72	21.13
23 05 29 00-0552 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	155.90	24.65
23 05 29 00-0553 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	162.89	28.17
23 05 29 00-0554 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	178.56	31.69
23 05 29 00-0555 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	226.84	35.21
23 05 29 00-0556 Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	98.92	14.09
23 05 29 00-0558 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	98.92	14.09
23 05 29 00-0559 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	99.45	14.09
23 05 29 00-0560 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	107.04	17.61
23 05 29 00-0561 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	103.15	17.61
23 05 29 00-0562 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	108.14	17.61
23 05 29 00-0563 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	124.38	14.09
23 05 29 00-0565 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	138.35	14.09
23 05 29 00-0566 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	181.08	17.61
23 05 29 00-0567 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	238.15	17.61
23 05 29 00-0568 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	322.92	17.61
23 05 29 00-0569 Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	156.07	21.13
23 05 29 00-0571 Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	103.41	17.61
23 05 29 00-0573 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	140.11	21.13
23 05 29 00-0574 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	156.55	24.65
23 05 29 00-0575 Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	368.87	28.17
23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	372.89	28.17
23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	386.99	28.17
23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	419.33	28.17
23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	361.70	28.17
23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	375.19	28.17
23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	389.28	28.17
23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	421.62	28.17
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS).....	377.73	28.17
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS).....	382.44	28.17
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	396.26	28.17
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	428.73	28.17
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	394.10	28.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	398.40	28.17
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	412.22	28.17
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	444.69	28.17
23 05 29 00-0592 Threaded Rod, Accessories And Attachments <small>(23 05 29)</small>		
23 05 29 00-0593 Threaded Rod And Rod Accessories <small>(23 05 29 00-0592)</small>		
23 05 29 00-0594 Threaded Rod <small>(23 05 29 00-0593)</small>		
Note: Fully threaded.		
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.78	0.88
For Galvanized, Add		0.81
For Zinc Plated, Add		0.58
For Work In Restricted Working Space, Add		0.53
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.09	0.95
For Galvanized, Add		1.29
For Zinc Plated, Add		0.92
For Work In Restricted Working Space, Add		0.56
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.93	0.98
For Galvanized, Add		2.00
For Zinc Plated, Add		1.42
For Work In Restricted Working Space, Add		0.58
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.06	1.00
For Galvanized, Add		3.62
For Zinc Plated, Add		2.58
For Work In Restricted Working Space, Add		0.60
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.03	1.04
For Galvanized, Add		3.98
For Zinc Plated, Add		2.84
For Work In Restricted Working Space, Add		0.62
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.32	1.17
For Galvanized, Add		5.59
For Zinc Plated, Add		3.98
For Work In Restricted Working Space, Add		0.70
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.25	1.31
For Galvanized, Add		7.06
For Zinc Plated, Add		5.03
For Work In Restricted Working Space, Add		0.78
23 05 29 00-0602 Rod Couplings <small>(23 05 29 00-0593)</small>		
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.23	
For Work In Restricted Working Space, Add		2.59
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut	11.59	
For Work In Restricted Working Space, Add		2.88
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.33	
For Work In Restricted Working Space, Add		3.24
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut	17.30	
For Work In Restricted Working Space, Add		3.54
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut	24.80	
For Work In Restricted Working Space, Add		3.89
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut	29.41	
For Work In Restricted Working Space, Add		4.58
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	54.74	
For Work In Restricted Working Space, Add		5.19
23 05 29 00-0610 Flat Washers <small>(23 05 29 00-0593)</small>		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.72	0.28
For Galvanized, Add		0.04
For Work In Restricted Working Space, Add		0.17
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.96	0.28
For Galvanized, Add		0.08
For Work In Restricted Working Space, Add		0.20
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.36	0.42
For Galvanized, Add		0.15
For Work In Restricted Working Space, Add		0.23
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.84	0.42
For Galvanized, Add		0.21
For Work In Restricted Working Space, Add		0.30
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.17	0.56
For Galvanized, Add		0.25
For Work In Restricted Working Space, Add		0.35
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.52	0.56
For Galvanized, Add		0.30
For Work In Restricted Working Space, Add		0.39
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.84	0.70
For Galvanized, Add		0.34
For Work In Restricted Working Space, Add		0.44

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0618			Hex Nuts <small>(23 05 29 00-0593)</small> Note: Grade 2 and zinc plated.		
23 05 29 00-0619	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.91	0.35
			<i>For Galvanized, Add</i>	0.03	
			<i>For Work In Restricted Working Space, Add</i>	0.24	
23 05 29 00-0620	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.15	0.35
			<i>For Galvanized, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	0.27	
23 05 29 00-0621	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.51	0.35
			<i>For Galvanized, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	0.28	
23 05 29 00-0622	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.76	0.70
			<i>For Galvanized, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	0.29	
23 05 29 00-0623	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.51	0.70
			<i>For Galvanized, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	0.31	
23 05 29 00-0624	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.17	0.70
			<i>For Galvanized, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	0.35	
23 05 29 00-0625	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.07	0.70
			<i>For Galvanized, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	0.39	
23 05 29 00-0626			Turnbuckle (Cooper B-Line B3202) <small>(23 05 29 00-0593)</small> Note: Type 13.		
23 05 29 00-0627	EA		3/8" Turnbuckle (Cooper B-Line B3202).....	33.53	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0628	EA		1/2" Turnbuckle (Cooper B-Line B3202).....	39.82	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0629	EA		5/8" Turnbuckle (Cooper B-Line B3202).....	42.89	8.45
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0630	EA		3/4" Turnbuckle (Cooper B-Line B3202).....	53.98	9.86
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0631	EA		7/8" Turnbuckle (Cooper B-Line B3202).....	69.88	10.56
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0632	EA		1" Turnbuckle (Cooper B-Line B3202).....	86.75	11.27
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0633	EA		1-1/8" Turnbuckle (Cooper B-Line B3202).....	120.36	12.68
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0634			Swivel Turnbuckle (Cooper B-Line B3224) <small>(23 05 29 00-0593)</small> Note: Type 15.		
23 05 29 00-0635	EA		3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	21.25	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0636	EA		1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	24.58	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0637	EA		5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	32.59	8.73
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0638	EA		3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	39.40	10.00
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0639			Forged Steel Clevis (Cooper B-Line B3201) <small>(23 05 29 00-0593)</small> Note: Type 14.		
23 05 29 00-0640	EA		3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	111.76	12.97
			<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0641	EA		4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	164.86	13.61
			<i>For Work In Restricted Working Space, Add</i>	8.19	
23 05 29 00-0642	EA		5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	178.31	14.27
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 05 29 00-0643	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	185.68	15.56
			<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0644	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	195.43	17.51
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 05 29 00-0645	EA		6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	325.66	22.70
			<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0646	EA		5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	353.47	25.94
			<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0647	EA		7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	416.69	32.42
			<i>For Work In Restricted Working Space, Add</i>	19.45	
23 05 29 00-0648			Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0649	EA		3/8" Diameter x 8" Length Shank, Welded Eye Rod.....	33.35	7.60
			<i>For Work In Restricted Working Space, Add</i>	4.58	
23 05 29 00-0650	EA		3/8" Diameter x 10" Length Shank, Welded Eye Rod.....	34.41	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0651	EA		3/8" Diameter x 12" Length Shank, Welded Eye Rod.....	35.49	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	35.78 4.84	8.03
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	37.92 5.02	8.31
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	40.40 5.28	8.87
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	42.05 5.55	9.29
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.30 5.81	9.71
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.74 6.08	10.14
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	50.20 6.34	10.56
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	44.38 5.07	8.45
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.46 5.16	8.59
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	46.58 5.25	8.73
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.68 5.35	8.87
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	49.87 5.54	9.15
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	53.94 5.82	9.72
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	57.25 6.10	10.14
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.32 6.38	10.56
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.59 6.66	11.13
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.91 6.94	11.55
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	59.74 5.67	9.44
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.62 5.77	9.58
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	63.54 5.87	9.72
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.65 5.96	10.00
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.65 6.16	10.28
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	72.55 6.45	10.70
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.44 6.74	11.27
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	81.54 7.03	11.69
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	86.45 7.33	12.25
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.34 7.62	12.68
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	73.31 6.45	10.70
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	76.00 6.54	10.84
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.90 6.65	11.13
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	80.58 6.74	11.27
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	85.18 6.95	11.55
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.65 7.24	12.11
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	98.16 7.55	12.53
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	105.45 7.85	13.10
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	112.71 8.15	13.52
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	119.21 8.45	14.09
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	87.73 7.48	12.39
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.21 7.58	12.68
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	93.92 7.68	12.82
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	96.61 7.79	12.96
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	102.05 8.00	13.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod.....	110.91	13.80
For Work In Restricted Working Space, Add	8.31	
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod.....	119.02	14.38
For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod.....	127.92	14.94
For Work In Restricted Working Space, Add	8.94	
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod.....	136.02	15.36
For Work In Restricted Working Space, Add	9.25	
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod.....	144.14	15.92
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod.....	109.82	14.94
For Work In Restricted Working Space, Add	8.92	
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod.....	113.36	15.08
For Work In Restricted Working Space, Add	9.04	
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod.....	116.90	15.22
For Work In Restricted Working Space, Add	9.16	
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod.....	120.42	15.50
For Work In Restricted Working Space, Add	9.27	
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod.....	127.46	15.92
For Work In Restricted Working Space, Add	9.51	
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod.....	138.07	16.49
For Work In Restricted Working Space, Add	9.86	
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod.....	148.69	17.05
For Work In Restricted Working Space, Add	10.22	
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod.....	160.02	17.61
For Work In Restricted Working Space, Add	10.57	
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod.....	170.63	18.18
For Work In Restricted Working Space, Add	10.92	
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod.....	181.24	18.74
For Work In Restricted Working Space, Add	11.27	
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0593)		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	69.30	10.28
For Work In Restricted Working Space, Add	6.20	
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	71.17	10.56
For Work In Restricted Working Space, Add	6.37	
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	73.04	10.98
For Work In Restricted Working Space, Add	6.55	
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	73.93	11.40
For Work In Restricted Working Space, Add	6.82	
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	77.40	11.83
For Work In Restricted Working Space, Add	7.08	
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	81.82	12.67
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	84.86	13.52
For Work In Restricted Working Space, Add	8.13	
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	90.57	14.51
For Work In Restricted Working Space, Add	8.66	
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	89.41	11.41
For Work In Restricted Working Space, Add	6.85	
23 05 29 00-0719 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	91.33	11.69
For Work In Restricted Working Space, Add	7.04	
23 05 29 00-0720 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	93.30	11.97
For Work In Restricted Working Space, Add	7.22	
23 05 29 00-0721 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	95.54	12.53
For Work In Restricted Working Space, Add	7.51	
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	99.07	12.96
For Work In Restricted Working Space, Add	7.79	
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	106.19	13.94
For Work In Restricted Working Space, Add	8.35	
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	112.00	14.80
For Work In Restricted Working Space, Add	8.91	
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	119.12	15.78
For Work In Restricted Working Space, Add	9.47	
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	119.50	12.68
For Work In Restricted Working Space, Add	7.65	
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	122.73	13.10
For Work In Restricted Working Space, Add	7.84	
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	126.02	13.38
For Work In Restricted Working Space, Add	8.03	
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	128.31	13.94
For Work In Restricted Working Space, Add	8.33	
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	133.21	14.38
For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	141.69	15.36
For Work In Restricted Working Space, Add	9.20	
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	150.16	16.35
For Work In Restricted Working Space, Add	9.78	
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	157.34	17.33
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	150.96	14.38
For Work In Restricted Working Space, Add	8.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	155.61 8.86	14.80
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	158.86 9.06	15.08
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	163.79 9.36	15.64
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	171.33 9.66	16.07
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	182.46 10.26	17.05
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	193.63 10.86	18.04
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	206.12 11.46	19.16
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	181.29 10.01	16.63
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	187.23 10.22	17.05
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	191.86 10.43	17.33
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	196.82 10.74	17.90
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	205.74 11.05	18.46
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	220.90 11.68	19.45
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	234.74 12.30	20.57
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.91 12.93	21.56
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	230.84 11.93	19.87
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	236.87 12.17	20.29
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	242.89 12.40	20.71
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.30 12.75	21.28
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	260.90 13.10	21.84
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	278.97 13.81	22.97
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	297.06 14.51	24.23
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	316.33 15.22	25.36
23 05 29 00-0758 Attachments <small>(23 05 29 00-0592)</small>		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 22.</i>		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	49.10 7.87	13.11
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	52.28 8.29	13.77
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	55.59 8.75	14.56
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	69.16 9.26	15.48
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	81.79 9.84	16.40
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	112.29 11.24	18.76
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	155.18 11.81	19.67
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 23. Top or bottom flange mount.</i>		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	20.41 5.28	7.18
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	23.62 5.63	9.15
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	26.43 6.04	9.86
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	32.60 6.50	10.56
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	44.70 7.04	11.27
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 21. For attaching threaded rod centered under beam flanges.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0774	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	48.02	9.86
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0775	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	67.69	12.68
			<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0776	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	93.97	14.09
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0777	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	111.68	15.50
			<i>For Work In Restricted Working Space, Add</i>	9.39	
23 05 29 00-0778	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	257.13	16.91
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0779			Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)		
			Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780	EA		1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	16.55	3.52
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0781	EA		3/4" Pipe Size, Steel U-Bolt (B-Line B-3188)	17.80	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0782	EA		1" Pipe Size, Steel U-Bolt (B-Line B-3188)	19.06	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0783	EA		1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188)	21.27	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.97	
23 05 29 00-0784	EA		1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	22.13	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0785	EA		2" Pipe Size, Steel U-Bolt (B-Line B-3188)	23.66	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0786	EA		2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	31.81	4.93
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0787	EA		3" Pipe Size, Steel U-Bolt (B-Line B-3188)	34.91	5.63
			<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0788	EA		4" Pipe Size, Steel U-Bolt (B-Line B-3188)	41.28	6.34
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0789			Copper Standoff Brackets With Flange (23 05 29 00-0758)		
			Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790	EA		Clamp Size 1/2", Copper Standoff Brackets With Flange	42.48	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0791	EA		Clamp Size 3/4", Copper Standoff Brackets With Flange	42.61	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0792	EA		Clamp Size 1", Copper Standoff Brackets With Flange	42.75	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0793	EA		Clamp Size 1 1/4", Copper Standoff Brackets With Flange	45.46	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0794	EA		Clamp Size 1 1/2", Copper Standoff Brackets With Flange	45.73	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0795			Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)		
			Note: Type 16.		
23 05 29 00-0796	EA		3/8" Rod Size, Malleable Iron Eye Socket	10.46	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0797	EA		1/2" Rod Size, Malleable Iron Eye Socket	13.40	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0798	EA		5/8" Rod Size, Malleable Iron Eye Socket	21.63	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0799	EA		3/4" Rod Size, Malleable Iron Eye Socket	29.66	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0800	EA		7/8" Rod Size, Malleable Iron Eye Socket	32.36	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0801			Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)		
			Note: Type 17.		
23 05 29 00-0802	EA		3/8" Rod Size, Steel Weldless Eye Nut	30.71	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0803	EA		1/2" Rod Size, Steel Weldless Eye Nut	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0804	EA		5/8" Rod Size, Steel Weldless Eye Nut	32.13	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0805	EA		3/4" Rod Size, Steel Weldless Eye Nut	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0806	EA		7/8" Rod Size, Steel Weldless Eye Nut	60.90	3.10
			<i>For Work In Restricted Working Space, Add</i>	1.90	
23 05 29 00-0807	EA		1" Rod Size, Steel Weldless Eye Nut	61.60	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0808			Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)		
			Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809	EA		3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	24.34	6.55
			<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0810	EA		1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	28.83	7.22
			<i>For Work In Restricted Working Space, Add</i>	4.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.47 5.02	8.53
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	67.72 5.90	9.84
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	25.38 3.93	6.55
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	30.30 4.34	7.22
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	49.34 5.02	8.53
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	74.34 5.90	9.84
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	27.80 3.93	6.55
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	33.02 4.34	7.22
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	40.76 4.77	7.87
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	56.59 5.02	8.53
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	88.50 5.90	9.84
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758) Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	22.13 5.28	9.15
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.49 5.63	9.15
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	31.57 6.04	9.86
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	51.27 6.50	10.56
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	59.37 7.04	11.97
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758) Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.62 0.88	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.78 0.91	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.22 0.95	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.00 0.98	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.32 1.02	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.27 1.06	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.84 1.06	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.10 1.10	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.87 1.15	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.74 1.20	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.88 1.26	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	8.44 1.32	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.47 1.17	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.45 1.20	
23 05 29 00-0845 Hanger Strap (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap	6.70	
23 05 29 00-0847 Shields And Saddles (23 05 29)		
23 05 29 00-0848 Insulation Protection Shield (23 05 29 00-0847) Note: Type 40.		
23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0848)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0850 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.34	3.38
<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0851 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.63	3.42
<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0852 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.11	3.47
<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0853 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	21.02	3.51
<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0854 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	23.20	3.59
<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0855 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	28.19	3.68
<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0856 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	32.69	3.76
<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0857 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	39.84	3.84
<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0858 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	50.96	3.89
<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0859 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	55.45	3.93
<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0860 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	76.07	3.97
<i>For Work In Restricted Working Space, Add</i>	3.97	
23 05 29 00-0861 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	85.38	4.01
<i>For Work In Restricted Working Space, Add</i>	4.01	
23 05 29 00-0862 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	157.78	4.05
<i>For Work In Restricted Working Space, Add</i>	4.06	
23 05 29 00-0863 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	171.46	4.14
<i>For Work In Restricted Working Space, Add</i>	4.14	
23 05 29 00-0864 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	207.10	4.23
<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0865 Insulation Protection Shield (Cooper B-Line B3154) <small>(23 05 29 00-0848)</small>		
23 05 29 00-0866 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.13	3.38
<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0867 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.37	3.42
<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0868 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.75	3.47
<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0869 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.46	3.51
<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0870 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	20.12	3.59
<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0871 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	23.81	3.68
<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0872 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	25.55	3.76
<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0873 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	32.41	3.84
<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0874 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	38.76	3.89
<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0875 Pipe Covering Protection Saddle <small>(23 05 29 00-0847)</small>		
Note: Sizes are pipe sizes.		
23 05 29 00-0876 Saddle, For 1" Insulation (Cooper B-Line B3160) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0877 EA 3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.59	4.64
<i>For Work In Restricted Working Space, Add</i>	4.64	
23 05 29 00-0878 EA 1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.72	4.68
<i>For Work In Restricted Working Space, Add</i>	4.68	
23 05 29 00-0879 EA 1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.85	4.72
<i>For Work In Restricted Working Space, Add</i>	4.72	
23 05 29 00-0880 EA 1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.31	4.80
<i>For Work In Restricted Working Space, Add</i>	4.80	
23 05 29 00-0881 EA 2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.43	4.84
<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0882 EA 2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	32.47	4.92
<i>For Work In Restricted Working Space, Add</i>	4.92	
23 05 29 00-0883 EA 3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	36.06	5.00
<i>For Work In Restricted Working Space, Add</i>	5.00	
23 05 29 00-0884 EA 4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	40.43	5.08
<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	45.41	5.23
<i>For Work In Restricted Working Space, Add</i>	5.23	
23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	55.21	5.43
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	61.65	5.51
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	72.99	5.63
<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	79.65	5.71
<i>For Work In Restricted Working Space, Add</i>	5.71	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0890				Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small>		
	EA			3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.34	4.64
				<i>For Work In Restricted Working Space, Add</i>	4.64	
	EA			1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.47	4.68
				<i>For Work In Restricted Working Space, Add</i>	4.68	
	EA			1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.60	4.72
				<i>For Work In Restricted Working Space, Add</i>	4.72	
	EA			1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	34.82	4.80
				<i>For Work In Restricted Working Space, Add</i>	4.80	
	EA			2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.54	4.84
				<i>For Work In Restricted Working Space, Add</i>	4.84	
	EA			2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	40.42	4.92
				<i>For Work In Restricted Working Space, Add</i>	4.92	
	EA			3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	41.10	5.00
				<i>For Work In Restricted Working Space, Add</i>	5.00	
	EA			4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	46.63	5.00
				<i>For Work In Restricted Working Space, Add</i>	5.08	
	EA			6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	52.43	5.23
				<i>For Work In Restricted Working Space, Add</i>	5.23	
	EA			8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	62.09	5.43
				<i>For Work In Restricted Working Space, Add</i>	5.43	
	EA			10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	69.79	5.51
				<i>For Work In Restricted Working Space, Add</i>	5.51	
	EA			12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	83.03	5.63
				<i>For Work In Restricted Working Space, Add</i>	5.63	
	EA			14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	90.92	5.71
				<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0904				Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small>		
	EA			3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	35.67	4.87
				<i>For Work In Restricted Working Space, Add</i>	4.88	
	EA			1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	35.81	4.92
				<i>For Work In Restricted Working Space, Add</i>	4.92	
	EA			1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	37.70	4.96
				<i>For Work In Restricted Working Space, Add</i>	4.96	
	EA			1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	38.84	5.04
				<i>For Work In Restricted Working Space, Add</i>	5.04	
	EA			2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	39.85	5.08
				<i>For Work In Restricted Working Space, Add</i>	5.08	
	EA			2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	40.12	5.17
				<i>For Work In Restricted Working Space, Add</i>	5.16	
	EA			3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	42.38	5.25
				<i>For Work In Restricted Working Space, Add</i>	5.23	
	EA			4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	44.67	5.32
				<i>For Work In Restricted Working Space, Add</i>	5.31	
	EA			6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	56.95	5.50
				<i>For Work In Restricted Working Space, Add</i>	5.51	
	EA			8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	64.56	5.71
				<i>For Work In Restricted Working Space, Add</i>	5.71	
	EA			10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	67.79	5.78
				<i>For Work In Restricted Working Space, Add</i>	5.79	
	EA			12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	91.46	5.90
				<i>For Work In Restricted Working Space, Add</i>	5.90	
	EA			14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	101.29	5.99
				<i>For Work In Restricted Working Space, Add</i>	5.98	
	EA			16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	111.39	6.14
				<i>For Work In Restricted Working Space, Add</i>	6.14	
	EA			18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	121.47	6.30
				<i>For Work In Restricted Working Space, Add</i>	6.30	
	EA			20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	133.21	6.45
				<i>For Work In Restricted Working Space, Add</i>	6.45	
	EA			24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	152.56	6.62
				<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0922				Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <small>(23 05 29 00-0875)</small>		
	EA			1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	39.97	5.08
				<i>For Work In Restricted Working Space, Add</i>	5.08	
	EA			1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	42.21	5.16
				<i>For Work In Restricted Working Space, Add</i>	5.16	
	EA			2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	43.32	5.21
				<i>For Work In Restricted Working Space, Add</i>	5.19	
	EA			2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.57	5.28
				<i>For Work In Restricted Working Space, Add</i>	5.27	
	EA			3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.96	5.37
				<i>For Work In Restricted Working Space, Add</i>	5.39	
	EA			4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	52.30	5.46
				<i>For Work In Restricted Working Space, Add</i>	5.47	
	EA			6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	59.90	5.63
				<i>For Work In Restricted Working Space, Add</i>	5.63	
	EA			8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	69.80	5.84
				<i>For Work In Restricted Working Space, Add</i>	5.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	74.81	5.93
<i>For Work In Restricted Working Space, Add</i>	5.94	
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	93.83	6.05
<i>For Work In Restricted Working Space, Add</i>	6.06	
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	111.47	6.14
<i>For Work In Restricted Working Space, Add</i>	6.14	
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	129.36	6.28
<i>For Work In Restricted Working Space, Add</i>	6.30	
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	137.43	6.44
<i>For Work In Restricted Working Space, Add</i>	6.45	
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	146.41	6.62
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	155.40	6.77
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	44.82	5.32
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	48.95	5.41
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	51.08	5.50
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	53.19	5.59
<i>For Work In Restricted Working Space, Add</i>	5.59	
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	61.18	5.76
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	76.90	5.96
<i>For Work In Restricted Working Space, Add</i>	5.98	
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	83.39	6.06
<i>For Work In Restricted Working Space, Add</i>	6.06	
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	108.78	6.19
<i>For Work In Restricted Working Space, Add</i>	6.18	
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	130.04	6.28
<i>For Work In Restricted Working Space, Add</i>	6.30	
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	151.30	6.43
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	154.19	6.59
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	156.97	6.76
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	199.51	6.93
<i>For Work In Restricted Working Space, Add</i>	6.93	
23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	50.64	5.44
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	55.49	5.54
<i>For Work In Restricted Working Space, Add</i>	5.55	
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	58.00	5.63
<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	60.62	5.71
<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	74.16	5.89
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	87.71	6.12
<i>For Work In Restricted Working Space, Add</i>	6.10	
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	90.69	6.21
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	116.23	6.34
<i>For Work In Restricted Working Space, Add</i>	6.34	
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	141.34	6.41
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	166.71	6.58
<i>For Work In Restricted Working Space, Add</i>	6.57	
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	204.14	6.75
<i>For Work In Restricted Working Space, Add</i>	6.73	
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	241.39	6.91
<i>For Work In Restricted Working Space, Add</i>	6.93	
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	258.29	7.08
<i>For Work In Restricted Working Space, Add</i>	7.08	
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	271.87	7.27
<i>For Work In Restricted Working Space, Add</i>	7.28	
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	281.90	7.45
<i>For Work In Restricted Working Space, Add</i>	7.44	
23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0847)		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	114.50	17.61
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	121.38	20.43
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	147.49	23.25
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	153.82	25.36



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 29 00-0973 EA	6" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	170.68	28.18
	23 05 29 00-0974 EA	8" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	194.14	35.22
	23 05 29 00-0975 EA	10" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	253.90	47.20
	23 05 29 00-0976 EA	12" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	314.11	70.45
23 05 29 00-0977	Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0978 EA	2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	141.59	17.61
	23 05 29 00-0979 EA	3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	146.62	20.43
	23 05 29 00-0980 EA	3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	157.12	21.84
	23 05 29 00-0981 EA	4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	160.40	23.25
	23 05 29 00-0982 EA	5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	168.66	25.36
	23 05 29 00-0983 EA	6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	178.85	28.18
	23 05 29 00-0984 EA	8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	227.10	35.22
	23 05 29 00-0985 EA	10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	306.35	47.20
	23 05 29 00-0986 EA	12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	400.95	70.45
23 05 29 00-0987	Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0988 EA	2-1/2" Pipe Saddle Support (Cooper B-Line B3095)	72.92	17.61
	23 05 29 00-0989 EA	3" Pipe Saddle Support (Cooper B-Line B3095)	77.95	20.43
	23 05 29 00-0990 EA	3-1/2" Pipe Saddle Support (Cooper B-Line B3095)	117.30	21.84
	23 05 29 00-0991 EA	4" Pipe Saddle Support (Cooper B-Line B3095)	120.58	23.25
	23 05 29 00-0992 EA	5" Pipe Saddle Support (Cooper B-Line B3095)	132.56	25.36
	23 05 29 00-0993 EA	6" Pipe Saddle Support (Cooper B-Line B3095)	146.95	28.18
	23 05 29 00-0994 EA	8" Pipe Saddle Support (Cooper B-Line B3095)	168.64	35.22
	23 05 29 00-0995 EA	10" Pipe Saddle Support (Cooper B-Line B3095)	196.89	47.20
	23 05 29 00-0996 EA	12" Pipe Saddle Support (Cooper B-Line B3095)	249.02	70.45
23 05 29 00-0997	360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small>			
		Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0998	1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-0999 EA	1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.74	8.53
	23 05 29 00-1000 EA	3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.01	8.53
	23 05 29 00-1001 EA	1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.08	8.53
	23 05 29 00-1002 EA	1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.35	8.53
	23 05 29 00-1003 EA	1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.69	9.06
	23 05 29 00-1004 EA	2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.58	9.33
	23 05 29 00-1005 EA	2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.60	9.72
	23 05 29 00-1006 EA	3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.70	10.11
	23 05 29 00-1007 EA	4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.53	10.50
	23 05 29 00-1008 EA	6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.08	9.06
	23 05 29 00-1009 EA	8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.18	11.82
	23 05 29 00-1010 EA	10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	46.28	13.92
	23 05 29 00-1011 EA	12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.92	16.15
	23 05 29 00-1012 EA	14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	58.86	16.68
23 05 29 00-1013	1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1014 EA	1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.72	6.44
	23 05 29 00-1015 EA	3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.06	6.44
	23 05 29 00-1016 EA	1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.41	6.57
	23 05 29 00-1017 EA	1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.94	6.70
	23 05 29 00-1018 EA	1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.44	6.70
	23 05 29 00-1019 EA	2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.32	6.96
	23 05 29 00-1020 EA	2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.38	7.22
	23 05 29 00-1021 EA	3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.94	7.35
	23 05 29 00-1022 EA	4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.97	8.01
	23 05 29 00-1023 EA	6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.13	13.78
	23 05 29 00-1024 EA	8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.77	10.37
	23 05 29 00-1025 EA	10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.12	12.21
	23 05 29 00-1026 EA	12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	42.26	14.05
	23 05 29 00-1027 EA	14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	50.02	16.94
23 05 29 00-1028	2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1029 EA	1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.09	7.35
	23 05 29 00-1030 EA	3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.31	7.35
	23 05 29 00-1031 EA	1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.96	7.49
	23 05 29 00-1032 EA	1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.53	7.62
	23 05 29 00-1033 EA	1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.13	7.75
	23 05 29 00-1034 EA	2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.02	8.01
	23 05 29 00-1035 EA	2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.27
	23 05 29 00-1036 EA	3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.38	8.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.85	9.06
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.96	10.24
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.01	17.47
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.39	20.22
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.49	23.90
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.56	26.79
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	83.42	30.20
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.99	35.45
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	106.60	39.40
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	120.50	44.65
23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.43	8.53
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.66
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.81	8.80
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.40	8.80
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	27.50	9.20
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.87	9.46
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.18	9.85
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.97	10.37
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.72	11.82
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	48.30	13.13
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.26	15.10
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.37	18.77
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.47	20.61
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.30	26.26
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.48	27.58
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	108.56	31.52
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	128.48	38.08
23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.48	8.80
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.74	9.20
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	54.64	9.20
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	55.92	9.46
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.40	9.72
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	59.05	9.85
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	62.08	10.11
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	64.77	10.76
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.17	11.16
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	81.39	13.65
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	104.01	14.97
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	123.48	15.76
23 05 29 00-1079 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	142.37	20.35
23 05 29 00-1080 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	159.98	21.67
23 05 29 00-1081 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	192.80	28.89
23 05 29 00-1082 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	207.50	31.52
23 05 29 00-1083 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	234.87	34.15
23 05 29 00-1084 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	276.02	42.02
23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1086 EA 1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1087 EA 3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.23	10.37
23 05 29 00-1088 EA 1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.32	10.37
23 05 29 00-1089 EA 1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.97	10.50
23 05 29 00-1090 EA 1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	31.79	10.63
23 05 29 00-1091 EA 2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.93	11.03
23 05 29 00-1092 EA 2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.62	11.43
23 05 29 00-1093 EA 3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	36.10	11.82
23 05 29 00-1094 EA 4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.60	12.48
23 05 29 00-1095 EA 6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	45.26	14.19
23 05 29 00-1096 EA 8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.93	15.76
23 05 29 00-1097 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	68.71	18.12
23 05 29 00-1098 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	79.63	22.59
23 05 29 00-1099 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.37	24.69
23 05 29 00-1100 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	107.16	31.52
23 05 29 00-1101 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	114.59	33.09
23 05 29 00-1102 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	130.33	37.82
23 05 29 00-1103 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	154.19	45.70



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1104				4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1105	EA			1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.59	11.56
23 05 29 00-1106	EA			3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.93	11.56
23 05 29 00-1107	EA			1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.04	11.69
23 05 29 00-1108	EA			1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.91	11.82
23 05 29 00-1109	EA			1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.52	11.82
23 05 29 00-1110	EA			2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.54	12.61
23 05 29 00-1111	EA			2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.92	12.74
23 05 29 00-1112	EA			3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.74	13.26
23 05 29 00-1113	EA			4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.53	14.05
23 05 29 00-1114	EA			6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.90	15.89
23 05 29 00-1115	EA			8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.19	17.20
23 05 29 00-1116	EA			10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.32	20.48
23 05 29 00-1117	EA			12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.61	25.47
23 05 29 00-1118	EA			14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	100.57	27.71
23 05 29 00-1119	EA			16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.63	35.45
23 05 29 00-1120	EA			18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	128.84	37.16
23 05 29 00-1121	EA			20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.17	42.55
23 05 29 00-1122	EA			24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	173.50	51.48
23 05 29 00-1123	EA			26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	198.88	60.54
23 05 29 00-1124	EA			28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	227.64	71.43
23 05 29 00-1125	EA			30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	259.41	84.44
23 05 29 00-1126	EA			42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	376.14	130.40
23 05 29 00-1127	EA			44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	406.71	143.53
23 05 29 00-1128	EA			46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	434.40	154.95
23 05 29 00-1129				Equipment Housekeeping Pads <small>(23 05 29)</small> See CSI section 03 31 13 00-0091 for Concrete Equipment Pads.		
23 05 29 00-1130				Molded Plastic Condenser Pad <small>(23 05 29 00-1129)</small>		
23 05 29 00-1131	EA			30" Round Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1132	EA			30" Octagon Molded Plastic Pad.....	129.22	17.61
23 05 29 00-1133	EA			30" x 30" Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1134	EA			36" x 36" Molded Plastic Pad.....	158.18	17.61
23 05 29 00-1135	EA			36" x 48" Molded Plastic Pad.....	223.23	17.61
23 05 29 00-1136				Inertia Base <small>(23 05 29 00-1129)</small> Note: Includes spring isolators.		
23 05 29 00-1137	EA			Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	1,694.76	
23 05 29 00-1138	EA			>12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	2,044.88	
23 05 29 00-1139	EA			>16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	2,342.05	
23 05 29 00-1140	EA			>20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	2,674.53	
23 05 29 00-1141				Hanger Assemblies <small>(23 05 29)</small> Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1142	EA			1/2" Standard Duty Clevis Pipe Hanger Assembly.....	58.70	21.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.09	
23 05 29 00-1143	EA			3/4" Standard Duty Clevis Pipe Hanger Assembly.....	61.30	23.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.87	
23 05 29 00-1144	EA			1" Standard Duty Clevis Pipe Hanger Assembly.....	63.31	24.54
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.45	
23 05 29 00-1145	EA			1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	64.44	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.68	
23 05 29 00-1146	EA			1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	64.75	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.68	
23 05 29 00-1147	EA			2" Standard Duty Clevis Pipe Hanger Assembly.....	66.13	24.77
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.91	
23 05 29 00-1148	EA			2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	70.92	24.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.79	
23 05 29 00-1149	EA			3" Standard Duty Clevis Pipe Hanger Assembly.....	73.25	24.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.02	
23 05 29 00-1150	EA			4" Standard Duty Clevis Pipe Hanger Assembly.....	87.96	28.11
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	16.59	
23 05 29 00-1151	EA			6" Standard Duty Clevis Pipe Hanger Assembly.....	129.53	36.32
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	21.79	
23 05 29 00-1152	EA			8" Standard Duty Clevis Pipe Hanger Assembly.....	151.37	42.14
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	25.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	207.63 31.71	53.52
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	229.26 34.62	57.60
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices	3.27	2.05
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices	4.26	2.56
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices	5.23	3.06
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices.....	7.20	3.81
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices.....	8.03	4.09
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices	10.71	4.59
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices.....	13.32	5.60
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices	17.20	6.56
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices	20.53	7.67
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices	8.59	4.55
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices	14.61	6.54
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices	18.22	7.85
23 05 29 00-1170 LF C5 x 6.7 - 5" Wide Channels For Hanger Devices	21.83	9.16
23 05 29 00-1171 LF C6 x 8.2 - 6" Wide Channels For Hanger Devices	26.43	11.00
23 05 29 00-1172 LF C7 x 9.8 - 7" Wide Channels For Hanger Devices.....	31.52	13.09
23 05 29 00-1173 LF C8 x 11.5 - 8" Wide Channels For Hanger Devices.....	35.70	14.41
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	9.65	6.40
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	11.61	7.57
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices	16.47	8.73
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	21.22	11.64
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices	28.97	13.96
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	36.33	18.04
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	16.49	8.73
23 05 29 00-1183 LF 2-1/16" x 3" x 2-11/16" Structural Zee For Hanger Devices.....	19.71	8.73
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices.....	28.78	8.73
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices.....	36.27	8.73
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	44.09	8.73
23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices.....	20.63	12.81
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices.....	23.68	13.96
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices.....	27.28	15.13
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices.....	29.82	16.88
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices.....	35.32	18.04
23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices.....	38.23	19.20
23 05 48 Vibration and Seismic Controls for HVAC (23 05)		
23 05 48 13 Vibration Controls for HVAC (23 05 48)		
23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator	115.55	39.43
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator	121.52	39.43
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator	141.32	39.43
23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	553.40	39.43
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	626.50	39.43
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	663.05	39.43
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	809.25	39.43
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	845.80	39.43
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	617.36	39.43
23 05 48 13-0012 EA To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	681.33	39.43
23 05 48 13-0013 EA To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	727.01	39.43
23 05 48 13-0014 EA To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	937.17	39.43



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	23 05 48	13-0015	EA	To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,019.41	39.43	
	23 05 48	13-0016	EA	To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,211.30	39.43	
23 05 48	13-0017	Vibration Isolators (23 05 48 13)					
23 05 48	13-0018	Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)					
	23 05 48	13-0019	EA	50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	138.36	25.36	
	23 05 48	13-0020	EA	600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	277.37	28.18	
23 05 48	13-0021	Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)					
	23 05 48	13-0022	EA	45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	80.75	21.14	
	23 05 48	13-0023	EA	130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	103.53	25.36	
23 05 48	13-0024	Spring Hanger For 1" Deflection (23 05 48 13-0017)					
	23 05 48	13-0025	EA	50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size	92.32	25.36	
23 05 48	13-0026	Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)					
	23 05 48	13-0027	EA	45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	170.22	47.91	
	23 05 48	13-0028	EA	130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	223.07	47.91	
	23 05 48	13-0029	EA	550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	404.45	47.91	
23 05 48	13-0030	Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)					
				Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.			
	23 05 48	13-0031	EA	50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	147.95	47.91	
	23 05 48	13-0032	EA	>1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	151.89	47.91	
23 05 48	13-0033	Open Double Spring Type Vibration Isolator (23 05 48 13-0017)					
				Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.			
	23 05 48	13-0034	EA	150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	107.78	23.95	
	23 05 48	13-0035	EA	500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	107.78	23.95	
	23 05 48	13-0036	EA	1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	120.91	23.95	
	23 05 48	13-0037	EA	1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	120.91	23.95	
	23 05 48	13-0038	EA	2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	180.29	23.95	
23 05 48	13-0039	Isolation Pads (23 05 48 13-0017)					
23 05 48	13-0040	Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)					
	23 05 48	13-0041	EA	2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	8.16	3.52	
	23 05 48	13-0042	EA	3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	10.03	3.66	
	23 05 48	13-0043	EA	4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	12.19	3.80	
	23 05 48	13-0044	EA	12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	42.81	4.37	
	23 05 48	13-0045	EA	18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	80.16	4.93	
23 05 48	13-0046	Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)					
	23 05 48	13-0047	EA	6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	82.32	3.52	
	23 05 48	13-0048	EA	6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	90.62	3.52	
23 05 48	13-0049	Neoprene Isolation Pad (23 05 48 13-0039)					
	23 05 48	13-0050	EA	2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad.....	7.73	3.52	
	23 05 48	13-0051	EA	3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad.....	8.64	3.52	
	23 05 48	13-0052	EA	4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad.....	10.06	3.52	
	23 05 48	13-0053	EA	12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad.....	42.15	4.23	
	23 05 48	13-0054	EA	18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad.....	75.48	4.93	
23 05 48	13-0055	Threaded Flexible Bronze Hose Connectors (23 05 48 13)					
				Note: Includes hex threaded nipple ends.			
	23 05 48	13-0056	EA	3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	79.37	22.54	
	23 05 48	13-0057	EA	1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	95.17	30.99	
	23 05 48	13-0058	EA	3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	116.55	38.04	
	23 05 48	13-0059	EA	1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	136.10	45.09	
	23 05 48	13-0060	EA	1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	156.57	59.17	
	23 05 48	13-0061	EA	1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	176.76	62.97	
	23 05 48	13-0062	EA	2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	234.67	74.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0063 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	319.37	116.37
23 05 48 13-0064 Weld End Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0065 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends	288.16	80.87
23 05 48 13-0066 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends	335.81	88.76
23 05 48 13-0067 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends	377.52	93.97
23 05 48 13-0068 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends	422.48	107.08
23 05 48 13-0069 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends	478.23	115.53
23 05 48 13-0070 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends	601.24	150.32
23 05 48 13-0071 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends	893.79	169.07
23 05 48 13-0072 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends	1,100.18	190.20
23 05 48 13-0073 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends	1,526.02	281.78
23 05 48 13-0074 Flanged Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0074)		
Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0076 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	241.59	105.67
23 05 48 13-0077 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	262.46	117.36
23 05 48 13-0078 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	442.77	234.44
23 05 48 13-0079 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	622.97	348.71
23 05 48 13-0080 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	808.96	450.14
23 05 48 13-0081 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	990.47	468.09
23 05 48 13-0082 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,191.74	534.62
23 05 48 13-0083 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,522.97	636.23
23 05 48 13-0084 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	3,937.74	795.75
23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0074)		
Note: With braided metal wire.		
23 05 48 13-0086 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	193.09	96.08
23 05 48 13-0087 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	201.55	132.16
23 05 48 13-0088 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	359.18	176.11
23 05 48 13-0089 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	479.03	264.17
23 05 48 13-0090 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	517.56	290.65
23 05 48 13-0091 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	606.42	351.95
23 05 48 13-0092 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	776.57	450.56
23 05 48 13-0093 EA 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,053.72	560.58
23 05 48 13-0094 EA 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,653.82	748.94
23 05 48 13-0095 EA 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,940.90	866.03
23 05 48 13-0096 EA 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,433.09	936.19
23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0074)		
Note: 150 PSI.		
23 05 48 13-0098 EA 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	955.94	204.29
23 05 48 13-0099 EA 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,075.54	239.52
23 05 48 13-0100 EA 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,643.27	402.55
23 05 48 13-0101 EA 6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,000.09	468.09
23 05 48 13-0102 EA 8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,600.32	574.19
23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)		
23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)		
Note: MPT connection.		
23 05 48 13-0105 EA 1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	36.73	2.82
23 05 48 13-0106 EA 1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	43.58	2.82
23 05 48 13-0107 EA 1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.86	3.66
23 05 48 13-0108 EA 1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.96	3.66
23 05 48 13-0109 EA 3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.97	3.38
23 05 48 13-0110 EA 3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.75	3.38
23 05 48 13-0111 EA 3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	67.58	4.36
23 05 48 13-0112 EA 3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	82.81	4.36
23 05 48 13-0113 EA 1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	66.46	3.94
23 05 48 13-0114 EA 1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	72.46	3.94
23 05 48 13-0115 EA 1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	86.45	5.21
23 05 48 13-0116 EA 1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	108.73	5.21
23 05 48 13-0117 EA 1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	130.84	5.21
23 05 48 13-0118 EA 1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	153.02	5.21
23 05 48 13-0119 EA 1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	94.34	5.06
23 05 48 13-0120 EA 1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	103.69	5.06
23 05 48 13-0121 EA 1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	132.19	5.06
23 05 48 13-0122 EA 1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	183.61	6.74
23 05 48 13-0123 EA 1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	212.33	6.74
23 05 48 13-0124 EA 1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	250.54	6.74



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0125	EA			2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	128.68	6.10
23 05 48 13-0126	EA			2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	148.22	6.10
23 05 48 13-0127	EA			2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	186.07	6.10
23 05 48 13-0128	EA			2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	248.15	8.17
23 05 48 13-0129	EA			2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	305.83	8.17
23 05 48 13-0130	EA			2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	363.47	8.17
23 05 48 13-0131	EA			2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	177.95	7.65
23 05 48 13-0132	EA			2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	202.02	7.26
23 05 48 13-0133	EA			2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	226.34	7.26
23 05 48 13-0134	EA			2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	279.54	9.73
23 05 48 13-0135	EA			2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	328.43	9.73
23 05 48 13-0136	EA			2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	375.80	9.73
23 05 48 13-0137	EA			3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	279.56	9.73
23 05 48 13-0138	EA			3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	312.04	9.73
23 05 48 13-0139	EA			3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	632.92	9.73
23 05 48 13-0140	EA			3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	763.28	12.97
23 05 48 13-0141	EA			3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	481.99	12.97
23 05 48 13-0142	EA			3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	545.90	12.97
23 05 48 13-0143	EA			4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	505.62	10.38
23 05 48 13-0144	EA			4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	543.57	10.38
23 05 48 13-0145	EA			4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	581.51	10.38
23 05 48 13-0146	EA			4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	665.69	13.83
23 05 48 13-0147	EA			4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	741.30	13.83
23 05 48 13-0148	EA			4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	818.52	13.83
23 05 48 13-0149	Braided Stainless Steel Flexible Hose Connectors <small>(23 05 48 13-0103)</small>					
	Note: Over braided carbon steel connection.					
23 05 48 13-0150	EA			2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	152.64	6.17
23 05 48 13-0151	EA			2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	183.69	6.17
23 05 48 13-0152	EA			2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	214.15	6.17
23 05 48 13-0153	EA			2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	280.37	8.26
23 05 48 13-0154	EA			2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	342.12	8.26
23 05 48 13-0155	EA			2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	403.80	8.26
23 05 48 13-0156	EA			2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	173.20	7.26
23 05 48 13-0157	EA			2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	205.65	7.26
23 05 48 13-0158	EA			2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	238.25	7.26
23 05 48 13-0159	EA			2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	308.82	9.73
23 05 48 13-0160	EA			2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	373.74	9.73
23 05 48 13-0161	EA			2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	437.77	9.73
23 05 48 13-0162	EA			4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	184.95	9.73
23 05 48 13-0163	EA			4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	222.12	9.98
23 05 48 13-0164	LF			4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	259.83	9.73
23 05 48 13-0165	EA			4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	344.16	12.97
23 05 48 13-0166	EA			4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	419.15	12.97
23 05 48 13-0167	EA			4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	496.28	12.97
23 05 48 13-0168	EA			6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	372.53	18.89
23 05 48 13-0169	EA			6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	544.45	19.02
23 05 48 13-0170	EA			6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	729.91	25.06
23 05 48 13-0171	EA			6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	901.89	25.06
23 05 48 13-0172	EA			6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,073.83	25.06
23 05 48 13-0173	EA			8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	635.50	20.86
23 05 48 13-0174	EA			8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	765.56	20.86
23 05 48 13-0175	EA			8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,037.42	27.12
23 05 48 13-0176	EA			8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,295.45	27.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,553.40	27.12
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	682.32	26.08
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,007.50	26.08
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,349.02	33.96
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,675.34	33.96
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,000.27	33.96
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,345.24	31.53
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,751.06	31.53
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,191.89	42.43
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,601.26	42.43
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,012.55	42.43
23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
Note: Flanged end connection (carbon steel ends).		
23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	283.39	6.10
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	602.48	172.86
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	719.27	172.86
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	836.06	172.86
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	952.89	172.86
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	581.67	220.45
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	704.74	220.45
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	827.85	220.45
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	951.02	220.45
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,072.02	220.45
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	839.81	369.57
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	983.46	370.50
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,129.44	369.57
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,292.67	369.57
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,417.38	369.57
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,254.30	472.24
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,579.78	472.24
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,905.44	473.93
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,230.97	472.24
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,556.45	472.24
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,919.42	533.18
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,165.65	533.18
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,653.85	533.18
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,142.23	533.18
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,630.38	533.18
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,051.80	649.08
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,665.27	649.08
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,282.86	649.08
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,899.12	649.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,397.17	649.08
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,104.36	788.17
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,882.84	788.17
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,661.26	788.17
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	6,439.69	788.17
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	7,218.17	788.17

23 05 53 Identification for HVAC Piping and Equipment (23 05)

23 05 53 00-0001 Systems Identification (23 05 53)

23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)

Note: Outside diameters of insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	19.43
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	19.78
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	19.97
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	20.28
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	22.94
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	23.57
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	34.89
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	35.40
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	35.94
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	36.22
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	36.52
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	36.83
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	38.45
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	38.79
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	46.56
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	48.55
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	56.23
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	64.38

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.07
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.77
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.19
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.47
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	20.91
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	21.34
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.37
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.93
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.35
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.79
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	26.66
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	27.61
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.44
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	29.26
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	32.60
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	34.15
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	40.08

23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	13.45
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic.....	12.84
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass.....	12.66

23 05 93 Testing, Adjusting, and Balancing for HVAC (23 05)

Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

23 05 93 00-0001 Heating And Ventilating Equipment (23 05 93)

23 05 93 00-0002 EA Balancing Centrifugal Fans.....	560.63
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-280.32</i>
23 05 93 00-0003 EA Balancing Heating And Ventilating Units.....	700.51
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-350.26</i>
23 05 93 00-0004 EA Balancing In Line Fan.....	630.70
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-315.35</i>
23 05 93 00-0005 EA Balancing Propeller And Wall Fan.....	140.15
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-70.08</i>

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 93 Testing, Adjusting, and Balancing for HVAC



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0006 EA Balancing Roof Exhaust Fan	420.44	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-210.22	
23 05 93 00-0007 EA Balancing Wall Fan	105.09	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-52.55	
23 05 93 00-0008 EA Balancing Fan Section Exhaust	559.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-279.87	
23 05 93 00-0009 Air Conditioning Equipment <small>(23 05 93)</small>		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit	1,037.87	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-518.94	
23 05 93 00-0011 EA Balancing Package A/C Unit	389.20	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.60	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit	518.94	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-259.47	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit	1,816.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-908.14	
23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers <small>(23 05 93)</small>		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser	105.11	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-52.56	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser	175.20	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-87.60	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser	91.10	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.55	
23 05 93 00-0018 EA Balance Variable Air Volume Box	98.70	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.35	
23 05 93 00-0019 EA Balance Constant Volume Box	98.70	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.35	
23 05 93 00-0020 EA Balance Fan Powered Box	112.12	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-56.06	
23 05 93 00-0021 EA Balance Lab Fume Hood	455.52	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-227.76	
23 05 93 00-0022 EA Balance General Hood	350.39	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-175.20	
23 05 93 00-0023 EA Balance Induction Unit	210.25	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-105.13	
23 05 93 00-0024 EA Balance Moduline - Master	84.07	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-42.04	
23 05 93 00-0025 EA Balance Moduline - Slave	42.05	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-21.03	
23 05 93 00-0026 EA Balance Dampers	39.04	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-19.52	
23 05 93 00-0027 EA Balance Regenerators	559.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-279.87	
23 05 93 00-0028 Water Balancing Of Components <small>(23 05 93)</small>		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	713.60	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-356.80	
23 05 93 00-0030 EA Water Balance, Cabinet Heater	90.82	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled	778.34	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-389.17	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	1,037.87	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-518.94	
23 05 93 00-0033 EA Water Balance, Cooling Tower	518.94	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-259.47	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	129.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.91	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel	129.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.87	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil	142.71	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-71.36	
23 05 93 00-0037 EA Water Balance, Pumps	389.22	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.61	
23 05 93 00-0038 EA Water Balance, Unit Heater	90.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0039 EA Water Balancing, Converter	389.36	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.68	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves	64.85	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-32.43	
23 05 93 00-0041 EA Water Balance, Convector	77.83	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-38.92	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves	97.30	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-48.65	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH	843.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-421.64	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler	1,556.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-778.41	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler	2,854.15	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-1,427.08	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0046				Non Destructive Testing <small>(23 05 93)</small>		
23 05 93 00-0047				X-Ray Welds, Non-Destructive Testing <small>(23 05 93 00-0046)</small>		
23 05 93 00-0048				Minimum Charge For X-Ray Welds <small>(23 05 93 00-0047)</small>		
23 05 93 00-0049	EA			X-Ray Welds Minimum Set-Up Charge 943.34 Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050				Piping, X-Ray Welds, Non Destructive Testing <small>(23 05 93 00-0047)</small>		
23 05 93 00-0051	EA			Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing..... 105.63		
23 05 93 00-0052	EA			1" Piping, X-Ray Welds, Non Destructive Testing 120.29		
23 05 93 00-0053	EA			1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing..... 134.96		
23 05 93 00-0054	EA			2" Piping, X-Ray Welds, Non Destructive Testing 142.60		
23 05 93 00-0055	EA			3" Piping, X-Ray Welds, Non Destructive Testing 150.23		
23 05 93 00-0056	EA			4" Piping, X-Ray Welds, Non Destructive Testing 158.43		
23 05 93 00-0057	EA			6" Piping, X-Ray Welds, Non Destructive Testing 173.69		
23 05 93 00-0058	EA			8" Piping, X-Ray Welds, Non Destructive Testing 188.95		
23 05 93 00-0059	EA			10" Piping, X-Ray Welds, Non Destructive Testing 197.16		
23 05 93 00-0060	EA			12" Piping, X-Ray Welds, Non Destructive Testing 205.37		
23 05 93 00-0061				Liquid Penetration Of Welds, Non Destructive Testing <small>(23 05 93 00-0046)</small>		
23 05 93 00-0062				Piping, Liquid Penetration Of Welds, Non Destructive Testing <small>(23 05 93 00-0061)</small>		
23 05 93 00-0063	EA			Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing 118.90		
23 05 93 00-0064	EA			1" Piping, Liquid Penetration Of Welds, Non Destructive Testing 125.94		
23 05 93 00-0065	EA			1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing 132.98		
23 05 93 00-0066	EA			2" Piping, Liquid Penetration Of Welds, Non Destructive Testing 136.50		
23 05 93 00-0067	EA			3" Piping, Liquid Penetration Of Welds, Non Destructive Testing 141.79		
23 05 93 00-0068	EA			4" Piping, Liquid Penetration Of Welds, Non Destructive Testing 147.08		
23 05 93 00-0069	EA			6" Piping, Liquid Penetration Of Welds, Non Destructive Testing 157.64		
23 05 93 00-0070	EA			8" Piping, Liquid Penetration Of Welds, Non Destructive Testing 168.20		
23 05 93 00-0071	EA			10" Piping, Liquid Penetration Of Welds, Non Destructive Testing 178.78		
23 05 93 00-0072	EA			12" Piping, Liquid Penetration Of Welds, Non Destructive Testing 189.34		
23 05 93 00-0073				Hydrostatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes flushing and restoring of system.		
23 05 93 00-0074				Piping, Hydrostatic Testing <small>(23 05 93 00-0073)</small>		
23 05 93 00-0075	EA			Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing..... 926.91		
23 05 93 00-0076	EA			>100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing 1,324.15		
23 05 93 00-0077	EA			>250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing 1,586.59		
23 05 93 00-0078	EA			>500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing 2,113.35		
23 05 93 00-0079	EA			>1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing..... 3,202.03		
23 05 93 00-0080	EA			Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing 1,232.42		
23 05 93 00-0081	EA			>100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing..... 1,761.12		
23 05 93 00-0082	EA			>250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing..... 2,096.57		
23 05 93 00-0083	EA			>500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing..... 2,747.32		
23 05 93 00-0084	EA			>1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing..... 4,156.23		
23 05 93 00-0085	EA			Up To 100', >4" To 10" Piping, Hydrostatic Testing 1,606.14		
23 05 93 00-0086	EA			>100' To 250', >4" To 10" Piping, Hydrostatic Testing 2,289.46		
23 05 93 00-0087	EA			>250' To 500', >4" To 10" Piping, Hydrostatic Testing..... 2,415.35		
23 05 93 00-0088	EA			>500' To 1,000', >4" To 10" Piping, Hydrostatic Testing 3,164.30		
23 05 93 00-0089	EA			>1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing 4,786.99		
23 05 93 00-0090	EA			Up To 100', >10" To 14" Piping, Hydrostatic Testing 2,085.17		
23 05 93 00-0091	EA			>100' To 250', >10" To 14" Piping, Hydrostatic Testing..... 2,972.76		
23 05 93 00-0092	EA			>250' To 500', >10" To 14" Piping, Hydrostatic Testing..... 3,140.57		
23 05 93 00-0093	EA			>500' To 1,000', >10" To 14" Piping, Hydrostatic Testing..... 4,119.19		
23 05 93 00-0094	EA			>1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing..... 6,241.21		
23 05 93 00-0095				Pneumatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096				Piping, Pneumatic Testing <small>(23 05 93 00-0095)</small>		
23 05 93 00-0097	EA			Up To 100', Up To 1-1/2" Piping, Pneumatic Testing..... 1,054.01 Note: Includes soaping joints.		
23 05 93 00-0098	EA			>100' To 250', Up To 1-1/2" Piping, Pneumatic Testing 1,504.00 Note: Includes soaping joints.		
23 05 93 00-0099	EA			>250' To 500', Up To 1-1/2" Piping, Pneumatic Testing 1,624.33 Note: Includes soaping joints.		
23 05 93 00-0100	EA			>500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing..... 2,080.40 Note: Includes soaping joints.		
23 05 93 00-0101	EA			>1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing..... 3,253.98 Note: Includes soaping joints.		
23 05 93 00-0102	EA			Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing..... 1,375.34 Note: Includes soaping joints.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,952.98	
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,111.48	
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,705.10	
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,229.61	
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,656.08	
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,337.19	
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,643.99	
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,378.17	
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	5,289.70	
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,156.36	
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,038.54	
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,438.20	
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,392.45	
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	6,887.59	
23 05 93 00-0117 EPA Testing Of Sludge (23 05 93)		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead.....	890.27	
23 05 93 00-0119 EA Air Test/Combustion Gas Level.....	96.86	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	1,364.54	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	1,036.65	

23 07 HVAC Insulation (23)**23 07 13 Duct Insulation (23 07)**

Note: Based on SF surface area of duct to receive insulation.

23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight.

23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.12	2.63
For Plain Blanket, With No Facing, Deduct	-0.25	
For Work In Restricted Working Space, Add	1.05	
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.81	2.63
For Plain Blanket, With No Facing, Deduct	-0.28	
For Work In Restricted Working Space, Add	1.23	
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.47	3.94
For Plain Blanket, With No Facing, Deduct	-0.31	
For Work In Restricted Working Space, Add	1.41	
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.44	4.60
For Plain Blanket, With No Facing, Deduct	-0.38	
For Work In Restricted Working Space, Add	1.64	
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	7.43	4.99
For Plain Blanket, With No Facing, Deduct	-0.61	
For Work In Restricted Working Space, Add	1.77	

23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.09	3.94
For Plain Blanket, With No Facing, Deduct	-0.28	
For Work In Restricted Working Space, Add	1.31	
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.92	4.60
For Plain Blanket, With No Facing, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.52	
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation.....	7.00	5.25
For Plain Blanket, With No Facing, Deduct	-0.41	
For Work In Restricted Working Space, Add	1.79	

23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.48	5.25
For Plain Blanket, With No Facing, Deduct	-0.48	
For Work In Restricted Working Space, Add	1.58	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	8.13	5.91
For Plain Blanket, With No Facing, Deduct	-0.84	
For Work In Restricted Working Space, Add	1.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9.49 -1.00 2.10	6.57
23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation <small>(23 07 13)</small> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.24 28.39 20.99 17.31 3.50	6.87
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.55 35.01 26.19 21.53 4.26	8.36
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.26 42.59 32.10 26.32 5.14	10.09
23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <small>(23 07 13)</small> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	13.69 3.85	7.57
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	17.53 4.68	9.20
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	22.21 5.65	11.11
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation <small>(23 07 13)</small>		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation	9.39	3.54
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation	10.01	3.74
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation	12.87	3.94
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation	14.72	4.13
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation	20.07	4.53
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation	23.62	4.92
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	13.48	3.74
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	14.78	3.94
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.39	4.13
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	25.05	4.53
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	29.57	4.92
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.95	3.74
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.25	3.94
23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	19.29	4.13
23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	27.92	4.53
23 07 16 HVAC Equipment Insulation <small>(23 07)</small>		
23 07 16 00-0001 Calcium Silicate Block Insulation <small>(23 07 16)</small>		
23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	19.60 4.96	8.26
23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	23.21 5.58	9.29
23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	27.67 6.45	10.72
23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	32.87 7.55	12.58
23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	40.21 9.29	15.49
23 07 19 HVAC Piping Insulation <small>(23 07)</small> See CSI section 22 07 19 00-0000 for pipe insulation.		
23 07 19 00-0001 Calcium Silicate Pipe Insulation <small>(23 07 19)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing.

23 07 19 00-0002	1" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0003	LF 1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
	<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 19 00-0004	LF 3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
	<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 19 00-0005	LF 1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.51	4.38
	<i>For Work In Restricted Working Space, Add</i>	3.29	
23 07 19 00-0006	LF 1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.74	4.44
	<i>For Work In Restricted Working Space, Add</i>	3.33	
23 07 19 00-0007	LF 1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.94	4.51
	<i>For Work In Restricted Working Space, Add</i>	3.38	
23 07 19 00-0008	LF 2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	16.97	4.63
	<i>For Work In Restricted Working Space, Add</i>	3.47	
23 07 19 00-0009	LF 2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.73	4.82
	<i>For Work In Restricted Working Space, Add</i>	3.61	
23 07 19 00-0010	LF 3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	18.48	4.94
	<i>For Work In Restricted Working Space, Add</i>	3.71	
23 07 19 00-0011	LF 4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	20.96	5.31
	<i>For Work In Restricted Working Space, Add</i>	3.99	
23 07 19 00-0012	LF 6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	23.37	6.00
	<i>For Work In Restricted Working Space, Add</i>	4.50	
23 07 19 00-0013	1-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0014	LF 1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.27	4.50
	<i>For Work In Restricted Working Space, Add</i>	3.37	
23 07 19 00-0015	LF 3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.35	4.50
	<i>For Work In Restricted Working Space, Add</i>	3.37	
23 07 19 00-0016	LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	17.49	4.77
	<i>For Work In Restricted Working Space, Add</i>	3.57	
23 07 19 00-0017	LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	18.14	4.85
	<i>For Work In Restricted Working Space, Add</i>	3.64	
23 07 19 00-0018	LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	18.81	4.94
	<i>For Work In Restricted Working Space, Add</i>	3.71	
23 07 19 00-0019	LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	20.15	5.21
	<i>For Work In Restricted Working Space, Add</i>	3.91	
23 07 19 00-0020	LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	21.03	5.30
	<i>For Work In Restricted Working Space, Add</i>	3.98	
23 07 19 00-0021	LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	21.83	5.48
	<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0022	LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	24.23	5.93
	<i>For Work In Restricted Working Space, Add</i>	4.45	
23 07 19 00-0023	LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	28.11	6.92
	<i>For Work In Restricted Working Space, Add</i>	5.19	
23 07 19 00-0024	LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	32.60	7.30
	<i>For Work In Restricted Working Space, Add</i>	5.48	
23 07 19 00-0025	LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	40.83	8.74
	<i>For Work In Restricted Working Space, Add</i>	6.56	
23 07 19 00-0026	LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	47.97	10.18
	<i>For Work In Restricted Working Space, Add</i>	7.64	
23 07 19 00-0027	LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	53.34	11.16
	<i>For Work In Restricted Working Space, Add</i>	8.37	
23 07 19 00-0028	LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	63.99	14.21
	<i>For Work In Restricted Working Space, Add</i>	10.66	
23 07 19 00-0029	LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	68.77	14.92
	<i>For Work In Restricted Working Space, Add</i>	11.19	
23 07 19 00-0030	2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0031	LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	20.30	4.94
	<i>For Work In Restricted Working Space, Add</i>	3.71	
23 07 19 00-0032	LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	20.73	4.94
	<i>For Work In Restricted Working Space, Add</i>	3.71	
23 07 19 00-0033	LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation	21.34	5.00
	<i>For Work In Restricted Working Space, Add</i>	3.75	
23 07 19 00-0034	LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	22.13	5.06
	<i>For Work In Restricted Working Space, Add</i>	3.80	
23 07 19 00-0035	LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	22.69	5.13
	<i>For Work In Restricted Working Space, Add</i>	3.85	
23 07 19 00-0036	LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	23.65	5.31
	<i>For Work In Restricted Working Space, Add</i>	3.99	
23 07 19 00-0037	LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	26.22	5.50
	<i>For Work In Restricted Working Space, Add</i>	4.13	
23 07 19 00-0038	LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation	26.74	5.69
	<i>For Work In Restricted Working Space, Add</i>	4.27	
23 07 19 00-0039	LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	29.48	6.01
	<i>For Work In Restricted Working Space, Add</i>	4.50	
23 07 19 00-0040	LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation	36.05	7.20
	<i>For Work In Restricted Working Space, Add</i>	5.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.50 5.70	7.60
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.75 6.83	9.09
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.24 8.17	10.90
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	70.99 11.40	15.20
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	74.36 11.40	15.20
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.57 11.97	15.96
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	94.46 13.68	18.24
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.39 16.53	22.04
23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.25 4.28	5.69
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.70 4.28	5.69
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.12 4.34	5.78
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.35 4.37	5.84
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.95 4.41	5.88
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.05 4.59	6.12
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.16 4.75	6.33
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.71 4.91	6.55
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.16 5.18	6.91
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.42 5.89	7.85
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.46 6.56	8.75
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	58.91 7.57	10.09
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.92 9.41	12.55
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.15 10.28	13.70
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	92.86 13.13	17.51
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	98.02 13.79	18.38
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	113.57 15.76	21.02
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	133.76 19.04	25.38
23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.17 4.73	6.31
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.27 4.73	6.31
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.55 4.78	6.37
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.86 4.81	6.41
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	31.15 4.86	6.48
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.22 5.04	6.72
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.51 5.21	6.95
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.27 5.40	7.20
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	42.35 5.70	7.61
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	50.06 6.48	8.63
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.97 7.22	9.62
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.70 8.33	11.11
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.81 10.35	13.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation	88.48	15.07
<i>For Work In Restricted Working Space, Add</i>	11.30	
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation	104.27	19.26
<i>For Work In Restricted Working Space, Add</i>	14.44	
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation	112.18	20.22
<i>For Work In Restricted Working Space, Add</i>	15.17	
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation	131.11	23.12
<i>For Work In Restricted Working Space, Add</i>	17.34	
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation	155.35	27.93
<i>For Work In Restricted Working Space, Add</i>	20.95	
23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	37.94	6.91
<i>For Work In Restricted Working Space, Add</i>	5.18	
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	39.24	6.91
<i>For Work In Restricted Working Space, Add</i>	5.18	
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	39.35	6.95
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	39.47	7.00
<i>For Work In Restricted Working Space, Add</i>	5.25	
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	40.66	7.09
<i>For Work In Restricted Working Space, Add</i>	5.32	
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	43.04	7.32
<i>For Work In Restricted Working Space, Add</i>	5.49	
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	46.58	7.59
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	48.24	7.86
<i>For Work In Restricted Working Space, Add</i>	5.89	
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	54.65	8.30
<i>For Work In Restricted Working Space, Add</i>	6.23	
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	61.04	9.43
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	73.89	10.49
<i>For Work In Restricted Working Space, Add</i>	7.87	
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	89.50	12.11
<i>For Work In Restricted Working Space, Add</i>	9.08	
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	108.54	15.06
<i>For Work In Restricted Working Space, Add</i>	11.30	
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	114.61	16.44
<i>For Work In Restricted Working Space, Add</i>	12.33	
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	134.48	21.01
<i>For Work In Restricted Working Space, Add</i>	15.76	
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	153.53	22.06
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	166.33	25.23
<i>For Work In Restricted Working Space, Add</i>	18.92	
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	46.95	7.68
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	46.99	7.68
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation	47.32	7.81
<i>For Work In Restricted Working Space, Add</i>	5.86	
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	48.56	7.90
<i>For Work In Restricted Working Space, Add</i>	5.92	
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	51.33	8.15
<i>For Work In Restricted Working Space, Add</i>	6.11	
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	52.44	8.40
<i>For Work In Restricted Working Space, Add</i>	6.30	
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	56.97	8.53
<i>For Work In Restricted Working Space, Add</i>	6.40	
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation	58.65	8.84
<i>For Work In Restricted Working Space, Add</i>	6.63	
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	66.26	9.34
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation	76.55	10.59
<i>For Work In Restricted Working Space, Add</i>	7.94	
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation	90.84	11.81
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation	104.62	13.64
<i>For Work In Restricted Working Space, Add</i>	10.23	
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation	119.78	16.94
<i>For Work In Restricted Working Space, Add</i>	12.71	
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation	127.62	18.50
<i>For Work In Restricted Working Space, Add</i>	13.88	
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation	151.91	23.66
<i>For Work In Restricted Working Space, Add</i>	17.75	
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation	161.39	24.79
<i>For Work In Restricted Working Space, Add</i>	18.59	
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation	179.03	28.37
<i>For Work In Restricted Working Space, Add</i>	21.28	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0123				Weather-Protective Coating For Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
	23 07 19 00-0124	SF		1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) 5.97 <i>For Work In Restricted Working Space, Add</i> 1.22		
23 20				HVAC Piping and Pumps <small>(23)</small>		
				Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.		
23 21				Hydronic Piping and Pumps <small>(23 20)</small>		
	23 21 13			Hydronic Piping <small>(23 21)</small>		
				Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.		
	23 21 13 23			Aboveground Hydronic Piping <small>(23 21 13)</small>		
	23 21 13 23-0001			Threaded Black Steel Pipe <small>(23 21 13 23)</small>		
	23 21 13 23-0002			Threaded Black Steel Pipe Assemblies <small>(23 21 13 23-0001)</small>		
				Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
	23 21 13 23-0003	LF		1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 21.89 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 5.02 <i>For Work In Restricted Working Space, Add</i> 5.36		5.19
	23 21 13 23-0004	LF		3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 23.49 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 5.47 <i>For Work In Restricted Working Space, Add</i> 5.60		5.57
	23 21 13 23-0005	LF		1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 25.44 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 6.01 <i>For Work In Restricted Working Space, Add</i> 5.91		6.10
	23 21 13 23-0006	LF		1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 29.52 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 7.23 <i>For Work In Restricted Working Space, Add</i> 6.38		6.36
	23 21 13 23-0007	LF		1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 30.81 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 7.64 <i>For Work In Restricted Working Space, Add</i> 6.47		7.53
	23 21 13 23-0008	LF		2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 36.04 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 9.09 <i>For Work In Restricted Working Space, Add</i> 7.28		9.07
	23 21 13 23-0009	LF		2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 50.10 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 13.22 <i>For Work In Restricted Working Space, Add</i> 9.04		10.76
	23 21 13 23-0010	LF		3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 63.04 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 16.79 <i>For Work In Restricted Working Space, Add</i> 11.07		14.40
	23 21 13 23-0011	LF		4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 80.52 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 23.08 <i>For Work In Restricted Working Space, Add</i> 11.08		15.33
	23 21 13 23-0012	LF		5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 123.45 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 37.40 <i>For Work In Restricted Working Space, Add</i> 13.20		19.59
	23 21 13 23-0013	LF		6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly 146.19 <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 44.65 <i>For Work In Restricted Working Space, Add</i> 14.95		23.17
	23 21 13 23-0014			Threaded Black Steel Pipe And Fittings <small>(23 21 13 23-0001)</small>		
				Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13	23-0015		Threaded And Coupled, Black Steel Piping <small>(23 21 13 23-0014)</small>		
			Note: ASTM A-53. Includes coupling.		
23 21 13	23-0016	LF	3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	7.82	3.24
			For Schedule 80 Pipe, Add	1.23	
			For Work In Restricted Working Space, Add	1.97	
23 21 13	23-0017	LF	1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	9.98	5.19
			For Schedule 80 Pipe, Add	1.74	
			For Work In Restricted Working Space, Add	2.36	
23 21 13	23-0018	LF	3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	11.12	5.57
			For Schedule 80 Pipe, Add	2.07	
			For Work In Restricted Working Space, Add	2.51	
23 21 13	23-0019	LF	1" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	12.73	6.10
			For Schedule 80 Pipe, Add	2.56	
			For Work In Restricted Working Space, Add	2.72	
23 21 13	23-0020	LF	1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	14.52	6.36
			For Schedule 80 Pipe, Add	3.17	
			For Work In Restricted Working Space, Add	2.88	
23 21 13	23-0021	LF	1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	17.15	7.53
			For Schedule 80 Pipe, Add	3.77	
			For Work In Restricted Working Space, Add	3.38	
23 21 13	23-0022	LF	2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	21.34	9.07
			For Schedule 80 Pipe, Add	4.83	
			For Work In Restricted Working Space, Add	4.10	
23 21 13	23-0023	LF	2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	28.35	10.76
			For Schedule 80 Pipe, Add	7.08	
			For Work In Restricted Working Space, Add	4.86	
23 21 13	23-0024	LF	3" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	37.52	14.40
			For Schedule 80 Pipe, Add	9.32	
			For Work In Restricted Working Space, Add	6.48	
23 21 13	23-0025	LF	4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	46.83	15.33
			For Schedule 80 Pipe, Add	13.00	
			For Work In Restricted Working Space, Add	6.92	
23 21 13	23-0026	LF	5" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	60.93	19.59
			For Schedule 80 Pipe, Add	17.15	
			For Work In Restricted Working Space, Add	8.80	
23 21 13	23-0027	LF	6" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	76.37	23.17
			For Schedule 80 Pipe, Add	22.22	
			For Work In Restricted Working Space, Add	10.41	
23 21 13	23-0028	LF	8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	103.72	28.01
			For Schedule 80 Pipe, Add	32.00	
			For Work In Restricted Working Space, Add	12.58	
23 21 13	23-0029	LF	10" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	138.70	34.12
			For Schedule 80 Pipe, Add	44.48	
			For Work In Restricted Working Space, Add	15.37	
23 21 13	23-0030	LF	12" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	184.86	44.85
			For Schedule 80 Pipe, Add	59.65	
			For Work In Restricted Working Space, Add	20.18	
23 21 13	23-0031		Black Malleable Iron 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21 13	23-0032	EA	3/8", 150 LB, Black Malleable Iron 90 Degree Elbow.....	33.42	19.20
			For 300 LB Rating, Add	12.79	
			For Standard Weight Cast Iron Fittings, Add	0.07	
			For Work In Restricted Working Space, Add	8.64	
23 21 13	23-0033	EA	1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	37.77	23.08
			For 300 LB Rating, Add	9.73	
			For Standard Weight Cast Iron Fittings, Add	0.05	
			For Work In Restricted Working Space, Add	10.37	
23 21 13	23-0034	EA	3/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	42.56	25.81
			For 300 LB Rating, Add	11.56	
			For Standard Weight Cast Iron Fittings, Add	0.06	
			For Work In Restricted Working Space, Add	11.61	
23 21 13	23-0035	EA	1", 150 LB, Black Malleable Iron 90 Degree Elbow.....	49.91	28.78
			For 300 LB Rating, Add	18.65	
			For Standard Weight Cast Iron Fittings, Add	0.11	
			For Work In Restricted Working Space, Add	12.97	
23 21 13	23-0036	EA	1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	59.96	32.68
			For 300 LB Rating, Add	29.41	
			For Standard Weight Cast Iron Fittings, Add	0.18	
			For Work In Restricted Working Space, Add	14.68	
23 21 13	23-0037	EA	1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	69.69	36.83
			For 300 LB Rating, Add	38.13	
			For Standard Weight Cast Iron Fittings, Add	0.23	
			For Work In Restricted Working Space, Add	16.55	
23 21 13	23-0038	EA	2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	95.12	46.81
			For 300 LB Rating, Add	64.28	
			For Standard Weight Cast Iron Fittings, Add	0.40	
			For Work In Restricted Working Space, Add	21.03	
23 21 13	23-0039	EA	2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	159.50	69.25
			For 300 LB Rating, Add	140.05	
			For Standard Weight Cast Iron Fittings, Add	0.89	
			For Work In Restricted Working Space, Add	31.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow	218.09	91.03
<i>For 300 LB Rating, Add</i>	204.01	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow	309.74	89.68
<i>For 300 LB Rating, Add</i>	428.67	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.80	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow	652.44	93.60
<i>For 300 LB Rating, Add</i>	1,237.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	8.19	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow	738.27	97.87
<i>For 300 LB Rating, Add</i>	1,428.52	
<i>For Standard Weight Cast Iron Fittings, Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	37.77	21.14
<i>For 300 LB Rating, Add</i>	16.49	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	9.51	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.91	24.38
<i>For 300 LB Rating, Add</i>	17.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	11.00	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.51	22.57
<i>For 300 LB Rating, Add</i>	23.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	10.13	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	49.01	27.36
<i>For 300 LB Rating, Add</i>	21.75	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
<i>For Work In Restricted Working Space, Add</i>	12.29	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	47.57	25.94
<i>For 300 LB Rating, Add</i>	23.14	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	53.10	23.99
<i>For 300 LB Rating, Add</i>	43.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	10.81	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.59	30.73
<i>For 300 LB Rating, Add</i>	35.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	58.89	29.18
<i>For 300 LB Rating, Add</i>	38.82	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	13.14	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.36	27.88
<i>For 300 LB Rating, Add</i>	44.77	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.28	
<i>For Work In Restricted Working Space, Add</i>	12.53	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	71.11	34.75
<i>For 300 LB Rating, Add</i>	48.87	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	15.62	
23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.26	32.81
<i>For 300 LB Rating, Add</i>	48.70	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.75	31.25
<i>For 300 LB Rating, Add</i>	55.16	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.35	
<i>For Work In Restricted Working Space, Add</i>	14.08	
23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.26	41.75
<i>For 300 LB Rating, Add</i>	70.05	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.44	
<i>For Work In Restricted Working Space, Add</i>	18.79	
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.89	39.68
<i>For 300 LB Rating, Add</i>	78.88	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
<i>For Work In Restricted Working Space, Add</i>	17.85	
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	88.03	37.74
<i>For 300 LB Rating, Add</i>	78.71	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
<i>For Work In Restricted Working Space, Add</i>	17.00	
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	87.67	36.31
<i>For 300 LB Rating, Add</i>	83.11	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.53	
<i>For Work In Restricted Working Space, Add</i>	16.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0061	EA	2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	162.71	57.97
			<i>For 300 LB Rating, Add</i>	187.11	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.21	
			<i>For Work In Restricted Working Space, Add</i>	26.08	
23 21	13 23-0062	EA	2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	159.72	53.04
			<i>For 300 LB Rating, Add</i>	197.37	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	23.84	
23 21	13 23-0063	EA	3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	261.95	80.14
			<i>For 300 LB Rating, Add</i>	347.60	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.27	
			<i>For Work In Restricted Working Space, Add</i>	36.04	
23 21	13 23-0064	EA	3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	225.82	68.85
			<i>For 300 LB Rating, Add</i>	300.25	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	30.99	
23 21	13 23-0065	EA	4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	370.32	85.30
			<i>For 300 LB Rating, Add</i>	589.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.88	
			<i>For Work In Restricted Working Space, Add</i>	38.38	
23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)					
23 21	13 23-0067	EA	3/8", 150 LB, Black Malleable Iron 45 Degree Elbow.....	35.75	19.20
			<i>For 300 LB Rating, Add</i>	18.38	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0068	EA	1/2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	39.86	23.08
			<i>For 300 LB Rating, Add</i>	14.75	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0069	EA	3/4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	45.23	25.81
			<i>For 300 LB Rating, Add</i>	17.97	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21	13 23-0070	EA	1", 150 LB, Black Malleable Iron 45 Degree Elbow.....	51.43	28.78
			<i>For 300 LB Rating, Add</i>	22.30	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0071	EA	1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow	63.46	32.68
			<i>For 300 LB Rating, Add</i>	37.81	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21	13 23-0072	EA	1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	73.15	36.83
			<i>For 300 LB Rating, Add</i>	46.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21	13 23-0073	EA	2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	97.26	46.81
			<i>For 300 LB Rating, Add</i>	69.41	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.43	
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0074	EA	2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	182.36	69.25
			<i>For 300 LB Rating, Add</i>	194.91	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0075	EA	3", 150 LB, Black Malleable Iron 45 Degree Elbow.....	238.62	91.03
			<i>For 300 LB Rating, Add</i>	253.28	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21	13 23-0076	EA	4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	334.75	89.68
			<i>For 300 LB Rating, Add</i>	488.69	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.20	
			<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21	13 23-0077	EA	5", 150 LB, Black Malleable Iron 45 Degree Elbow.....	931.37	93.60
			<i>For 300 LB Rating, Add</i>	1,906.89	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	12.66	
			<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21	13 23-0078	EA	6", 150 LB, Black Malleable Iron 45 Degree Elbow.....	956.04	97.87
			<i>For 300 LB Rating, Add</i>	1,951.17	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	12.95	
			<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0079 Black Malleable Iron Tees (23 21 13 23-0014)					
23 21	13 23-0080	EA	3/8", 150 LB, Black Malleable Iron Tee.....	42.71	23.73
			<i>For 300 LB Rating, Add</i>	18.22	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
23 21	13 23-0081	EA	1/2", 150 LB, Black Malleable Iron Tee.....	47.49	28.78
			<i>For 300 LB Rating, Add</i>	12.84	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	12.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	56.00	33.33
<i>For 300 LB Rating, Add</i>	17.70	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	69.43	39.30
<i>For 300 LB Rating, Add</i>	28.71	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	87.08	46.81
<i>For 300 LB Rating, Add</i>	44.98	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	104.79	55.76
<i>For 300 LB Rating, Add</i>	55.73	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	139.75	69.25
<i>For 300 LB Rating, Add</i>	92.65	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.58	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	214.14	91.03
<i>For 300 LB Rating, Add</i>	194.53	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.24	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	276.46	108.15
<i>For 300 LB Rating, Add</i>	284.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.83	
<i>For Work In Restricted Working Space, Add</i>	48.63	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	446.31	113.32
<i>For 300 LB Rating, Add</i>	673.60	
<i>For Standard Weight Cast Iron Fittings, Add</i>	4.42	
<i>For Work In Restricted Working Space, Add</i>	50.97	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	1,039.38	134.53
<i>For 300 LB Rating, Add</i>	2,022.44	
<i>For Standard Weight Cast Iron Fittings, Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	60.52	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	1,129.49	153.78
<i>For 300 LB Rating, Add</i>	2,171.27	
<i>For Standard Weight Cast Iron Fittings, Add</i>	14.38	
<i>For Work In Restricted Working Space, Add</i>	69.17	
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	50.48	28.78
<i>For 300 LB Rating, Add</i>	20.02	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.12	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	59.35	33.33
<i>For 300 LB Rating, Add</i>	25.74	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	70.89	39.30
<i>For 300 LB Rating, Add</i>	32.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	93.59	46.81
<i>For 300 LB Rating, Add</i>	60.61	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0097 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	109.70	55.76
<i>For 300 LB Rating, Add</i>	67.52	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.42	
<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21 13 23-0098 EA 2", 150 LB, Black Malleable Iron Reducing Tee.....	141.54	69.25
<i>For 300 LB Rating, Add</i>	96.94	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.60	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0099 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	254.27	91.03
<i>For 300 LB Rating, Add</i>	290.84	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.88	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0100 EA 3", 150 LB, Black Malleable Iron Reducing Tee.....	296.99	108.15
<i>For 300 LB Rating, Add</i>	333.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.16	
<i>For Work In Restricted Working Space, Add</i>	48.63	
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....	497.04	113.32
<i>For 300 LB Rating, Add</i>	795.35	
<i>For Standard Weight Cast Iron Fittings, Add</i>	5.23	
<i>For Work In Restricted Working Space, Add</i>	50.97	
23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee.....	960.55	134.53
<i>For 300 LB Rating, Add</i>	1,833.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	12.14	
<i>For Work In Restricted Working Space, Add</i>	60.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0103	EA	6", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,091.23 2,079.44 13.77 69.17	153.78
23 21	13 23-0104		Black Malleable Iron Couplings (23 21 13 23-0014)		
23 21	13 23-0105	EA	3/8", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.54 15.48 0.09 8.64	19.20
23 21	13 23-0106	EA	1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.00 12.68 0.07 10.37	23.08
23 21	13 23-0107	EA	3/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.88 14.73 0.08 11.61	25.81
23 21	13 23-0108	EA	1", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.96 21.17 0.12 12.97	28.78
23 21	13 23-0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.96 27.01 0.16 14.68	32.68
23 21	13 23-0110	EA	1-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.72 35.81 0.22 16.55	36.83
23 21	13 23-0111	EA	2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.17 52.40 0.32 21.03	46.81
23 21	13 23-0112	EA	2-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.14 139.18 0.89 31.12	69.25
23 21	13 23-0113	EA	3", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.40 187.95 1.20 40.95	91.03
23 21	13 23-0114	EA	4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.33 370.09 2.41 40.35	89.68
23 21	13 23-0115	EA	5", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	565.09 1,027.82 6.80 42.10	93.60
23 21	13 23-0116	EA	6", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	630.61 1,170.14 7.74 44.02	97.87
23 21	13 23-0117		Black Malleable Iron Reducing Couplings (23 21 13 23-0014)		
23 21	13 23-0118	EA	1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.06 15.23 0.09 10.37	23.08
23 21	13 23-0119	EA	3/4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.51 16.24 0.09 11.61	25.81
23 21	13 23-0120	EA	1", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.25 24.27 0.14 12.97	28.78
23 21	13 23-0121	EA	1-1/4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.55 30.82 0.19 14.68	32.68
23 21	13 23-0122	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.86 38.54 0.23 16.55	36.83
23 21	13 23-0123	EA	2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.36 55.25 0.34 21.03	46.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.62 157.14 1.01 31.12	69.25
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.93 191.62 1.22 40.95	91.03
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	287.69 375.75 2.45 40.35	89.68
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	484.68 834.84 5.51 42.10	93.60
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	589.00 1,070.28 7.08 44.02	97.87
 23 21 13 23-0129 Black Malleable Iron Caps (23 21 13 23-0014)		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.79 8.69 0.05 4.67	10.24
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.78 11.53 0.07 5.22	11.54
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.74 13.86 0.08 5.84	12.84
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.98 18.03 0.11 6.61	14.53
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.40 24.46 0.15 7.45	16.34
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.52 35.44 0.22 9.46	20.88
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.75 79.77 0.51 14.00	30.87
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.72 117.18 0.76 18.43	40.58
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.61 198.25 1.30 18.16	40.00
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.41 467.61 3.09 18.95	41.73
23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.28 854.19 5.67 19.81	43.58
 23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	44.29 8.64	19.20
23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	57.23 12.97	28.78
23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	65.97 14.96	33.33
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	79.94 17.68	39.30
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	100.21 21.03	46.81
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	121.21 25.10	55.76
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	147.40 31.12	69.25

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0149	EA	2-1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	283.21 45.94	102.05
23 21	13 23-0150	EA	3", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	358.09 60.45	134.22
23 21	13 23-0151	EA	3/8", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	49.27 8.64	19.20
23 21	13 23-0152	EA	1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	66.70 12.97	28.78
23 21	13 23-0153	EA	3/4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	72.96 14.96	33.33
23 21	13 23-0154	EA	1", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	87.26 17.68	39.30
23 21	13 23-0155	EA	1-1/4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	117.63 21.03	46.81
23 21	13 23-0156	EA	1-1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	138.39 25.10	55.76
23 21	13 23-0157	EA	2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	173.95 31.12	69.25
23 21	13 23-0158	EA	2-1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	373.21 45.94	102.05
23 21	13 23-0159	EA	3", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	459.06 60.45	134.22
23 21	13 23-0160	EA	4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	655.07 59.56	132.34
23 21	13 23-0161	EA	3/8", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	62.01 8.64	19.20
23 21	13 23-0162	EA	1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	70.08 12.97	28.78
23 21	13 23-0163	EA	3/4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	79.62 14.96	33.33
23 21	13 23-0164	EA	1", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	97.77 17.68	39.30
23 21	13 23-0165	EA	1-1/4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	133.43 21.03	46.81
23 21	13 23-0166	EA	1-1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	149.99 25.10	55.76
23 21	13 23-0167	EA	2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	185.90 31.12	69.25
23 21	13 23-0168	EA	2-1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	418.05 45.94	102.05
23 21	13 23-0169	EA	3", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	544.20 60.45	134.22
23 21	13 23-0170	EA	4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	1,286.25 59.56	132.34
23 21	13 23-0171		Black Steel Nipples <small>(23 21 13 23-0014)</small>		
23 21	13 23-0172	EA	3/8" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.56 1.02 5.56	12.31
23 21	13 23-0173	EA	1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.24 0.86 5.56	12.31
23 21	13 23-0174	EA	3/4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.50 0.99 5.56	12.31
23 21	13 23-0175	EA	1" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.82 1.44 5.99	13.36
23 21	13 23-0176	EA	1-1/4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.25 1.82 6.48	14.40
23 21	13 23-0177	EA	1-1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.14 2.27 6.48	14.40
23 21	13 23-0178	EA	2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.06 3.09 8.37	18.54
23 21	13 23-0179	EA	2-1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.89 9.66 10.37	23.08
23 21	13 23-0180	EA	3" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.78 11.48 12.55	27.88
23 21	13 23-0181	EA	4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.68 17.28 13.84	30.78
23 21	13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.84 1.16 5.56	12.31
23 21	13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.24 0.86 5.56	12.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0184 EA 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0185 EA 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	20.84	12.31
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0186 EA 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	20.24	12.31
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0187 EA 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0188 EA 1" x 2" Long, Schedule 40 Black Steel Nipple.....	23.10	13.36
For Schedule 80 Nipples, Add	1.58	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0189 EA 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple	25.74	14.40
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0190 EA 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple	26.50	14.40
For Schedule 80 Nipples, Add	2.45	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0191 EA 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	34.97	18.54
For Schedule 80 Nipples, Add	3.54	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple.....	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0204 EA 2" x 3" Long, Schedule 40 Black Steel Nipple.....	34.97	18.54
For Schedule 80 Nipples, Add	3.54	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0205 EA 2-1/2" x 3" Long, Schedule 40 Black Steel Nipple	54.40	23.08
For Schedule 80 Nipples, Add	9.91	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0206 EA 3" x 3" Long, Schedule 40 Black Steel Nipple.....	66.78	27.88
For Schedule 80 Nipples, Add	12.48	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0207 EA 3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple	22.03	12.31
For Schedule 80 Nipples, Add	1.76	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0208 EA 1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	20.97	12.31
For Schedule 80 Nipples, Add	1.23	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0209 EA 3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple	24.08	13.36
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	26.80	14.40
For Schedule 80 Nipples, Add	2.60	
For Work In Restricted Working Space, Add	6.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	22.03	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	20.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.23	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple.....	24.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple.....	26.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple.....	86.11	30.78
			<i>For Schedule 80 Nipples, Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	27.82	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.11	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	29.10	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.75	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0232	EA	2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	37.76	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.94	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0233	EA	2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	60.19	23.08
			<i>For Schedule 80 Nipples, Add</i>	12.81	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0234	EA	3" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	74.42	27.88
			<i>For Schedule 80 Nipples, Add</i>	16.30	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0235	EA	4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	91.81	30.78
			<i>For Schedule 80 Nipples, Add</i>	22.85	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0236	EA	3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0237	EA	1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	5.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0240 EA 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	27.82	14.40
For Schedule 80 Nipples, Add	3.11	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0241 EA 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	29.10	14.40
For Schedule 80 Nipples, Add	3.75	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0242 EA 2" x 5" Long, Schedule 40 Black Steel Nipple.....	37.76	18.54
For Schedule 80 Nipples, Add	4.94	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0243 EA 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	60.19	23.08
For Schedule 80 Nipples, Add	12.81	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0244 EA 3" x 5" Long, Schedule 40 Black Steel Nipple.....	74.42	27.88
For Schedule 80 Nipples, Add	16.30	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0245 EA 4" x 5" Long, Schedule 40 Black Steel Nipple.....	91.81	30.78
For Schedule 80 Nipples, Add	22.85	
For Work In Restricted Working Space, Add	13.84	
23 21 13 23-0246 EA 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	24.16	12.31
For Schedule 80 Nipples, Add	2.82	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0247 EA 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	21.73	12.31
For Schedule 80 Nipples, Add	1.61	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	22.77	12.31
For Schedule 80 Nipples, Add	2.13	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple.....	25.74	13.36
For Schedule 80 Nipples, Add	2.90	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple	28.97	14.40
For Schedule 80 Nipples, Add	3.68	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple	30.20	14.40
For Schedule 80 Nipples, Add	4.30	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple.....	39.46	18.54
For Schedule 80 Nipples, Add	5.79	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple	61.27	23.08
For Schedule 80 Nipples, Add	13.35	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple.....	77.25	27.88
For Schedule 80 Nipples, Add	17.71	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple.....	94.96	30.78
For Schedule 80 Nipples, Add	24.42	
For Work In Restricted Working Space, Add	13.84	
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	28.41	12.31
For Schedule 80 Nipples, Add	4.95	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	24.31	12.31
For Schedule 80 Nipples, Add	2.90	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	25.60	12.31
For Schedule 80 Nipples, Add	3.54	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple.....	29.42	13.36
For Schedule 80 Nipples, Add	4.74	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0260 EA 1-1/4" x 8" Long, Schedule 40 Black Steel Nipple	33.50	14.40
For Schedule 80 Nipples, Add	5.95	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0261 EA 1-1/2" x 8" Long, Schedule 40 Black Steel Nipple	35.24	14.40
For Schedule 80 Nipples, Add	6.82	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0262 EA 2" x 8" Long, Schedule 40 Black Steel Nipple.....	47.29	18.54
For Schedule 80 Nipples, Add	9.70	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0263 EA 2-1/2" x 8" Long, Schedule 40 Black Steel Nipple	68.55	23.08
For Schedule 80 Nipples, Add	16.99	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0264 EA 3" x 8" Long, Schedule 40 Black Steel Nipple.....	89.60	27.88
For Schedule 80 Nipples, Add	23.89	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0265 EA 4" x 8" Long, Schedule 40 Black Steel Nipple.....	102.49	30.78
For Schedule 80 Nipples, Add	28.19	
For Work In Restricted Working Space, Add	13.84	
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple.....	29.62	12.31
For Schedule 80 Nipples, Add	5.55	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	25.48	12.31
For Schedule 80 Nipples, Add	3.48	
For Work In Restricted Working Space, Add	5.56	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0268	EA	3/4" x 10" Long, Schedule 40 Black Steel Nipple.....	26.75	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.12	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0269	EA	1" x 10" Long, Schedule 40 Black Steel Nipple.....	31.01	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.53	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0270	EA	1-1/4" x 10" Long, Schedule 40 Black Steel Nipple.....	35.86	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.13	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0271	EA	1-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	37.56	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.98	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0272	EA	2" x 10" Long, Schedule 40 Black Steel Nipple.....	50.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	11.40	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0273	EA	2-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	72.74	23.08
			<i>For Schedule 80 Nipples, Add</i>	19.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0274	EA	3" x 10" Long, Schedule 40 Black Steel Nipple.....	95.50	27.88
			<i>For Schedule 80 Nipples, Add</i>	26.84	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0275	EA	4" x 10" Long, Schedule 40 Black Steel Nipple.....	110.31	30.78
			<i>For Schedule 80 Nipples, Add</i>	32.10	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0276	EA	3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	31.15	12.31
			<i>For Schedule 80 Nipples, Add</i>	6.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0277	EA	1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	26.77	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.13	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0278	EA	3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	27.67	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.58	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0279	EA	1" x 12" Long, Schedule 40 Black Steel Nipple.....	32.65	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.35	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0280	EA	1-1/4" x 12" Long, Schedule 40 Black Steel Nipple.....	37.78	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0281	EA	1-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	39.99	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.19	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0282	EA	2" x 12" Long, Schedule 40 Black Steel Nipple.....	54.14	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.13	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0283	EA	2-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	77.04	23.08
			<i>For Schedule 80 Nipples, Add</i>	21.23	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0284	EA	3" x 12" Long, Schedule 40 Black Steel Nipple.....	101.39	27.88
			<i>For Schedule 80 Nipples, Add</i>	29.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0285	EA	4" x 12" Long, Schedule 40 Black Steel Nipple.....	121.38	30.78
			<i>For Schedule 80 Nipples, Add</i>	37.63	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0286		Black Malleable Iron Bushing <small>(2321 13 23-0014)</small>		
23 21	13 23-0287	EA	1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	36.60	21.14
			<i>For Work In Restricted Working Space, Add</i>	9.51	
23 21	13 23-0288	EA	3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	41.12	22.70
			<i>For Work In Restricted Working Space, Add</i>	10.22	
23 21	13 23-0289	EA	3/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	43.72	24.38
			<i>For Work In Restricted Working Space, Add</i>	11.00	
23 21	13 23-0290	EA	1" x 3/8", 150 LB, Black Malleable Iron Bushing.....	46.06	24.25
			<i>For Work In Restricted Working Space, Add</i>	10.89	
23 21	13 23-0291	EA	1" x 1/2", 150 LB, Black Malleable Iron Bushing.....	46.19	25.94
			<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21	13 23-0292	EA	1" x 3/4", 150 LB, Black Malleable Iron Bushing.....	48.26	27.36
			<i>For Work In Restricted Working Space, Add</i>	12.29	
23 21	13 23-0293	EA	1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	50.11	26.07
			<i>For Work In Restricted Working Space, Add</i>	11.75	
23 21	13 23-0294	EA	1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	52.20	27.88
			<i>For Work In Restricted Working Space, Add</i>	12.53	
23 21	13 23-0295	EA	1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	53.21	29.18
			<i>For Work In Restricted Working Space, Add</i>	13.14	
23 21	13 23-0296	EA	1-1/4" x 1", 150 LB, Black Malleable Iron Bushing.....	55.48	30.73
			<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21	13 23-0297	EA	1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	56.71	28.27
			<i>For Work In Restricted Working Space, Add</i>	12.68	
23 21	13 23-0298	EA	1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	56.77	29.95
			<i>For Work In Restricted Working Space, Add</i>	13.46	
23 21	13 23-0299	EA	1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	58.83	31.25
			<i>For Work In Restricted Working Space, Add</i>	14.08	
23 21	13 23-0300	EA	1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	59.65	32.81
			<i>For Work In Restricted Working Space, Add</i>	14.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.98 15.62	34.75
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.12 14.92	33.20
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.30 15.70	34.88
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.60 16.32	36.31
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.89 17.00	37.74
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	73.75 17.85	39.68
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	78.48 18.79	41.75
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	97.10 21.37	47.47
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	99.35 22.04	49.02
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	102.21 22.90	50.84
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	103.57 23.84	53.04
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	110.83 26.08	57.97
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.39 26.28	58.35
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	125.64 26.96	59.91
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.50 27.82	61.85
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	130.93 28.76	63.93
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.08 30.99	68.85
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.39 36.04	80.14
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.08 25.34	56.26
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	155.08 25.94	57.64
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.62 26.70	59.37
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	160.39 27.53	61.22
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.33 29.52	65.60
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	178.29 34.01	75.62
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	192.85 38.38	85.30
23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	15.28 3.46	7.65
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	17.83 4.15	9.21
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	19.48 4.64	10.37
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	22.31 5.18	11.54
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	25.90 5.87	13.10
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	30.90 6.62	14.66
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	40.59 8.41	18.67
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	64.34 12.45	27.62
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	85.97 16.38	36.44
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	119.58 16.14	35.85
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	197.44 16.84	37.46
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	233.70 17.61	39.07
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges (23 21 13 23-0014)		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	149.43 23.34	51.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0341	EA	1", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	133.47 26.38	58.61
23 21	13 23-0342	EA	1-1/4", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	145.49 27.30	60.69
23 21	13 23-0343	EA	1-1/2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	149.35 29.70	66.01
23 21	13 23-0344	EA	2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	153.58 31.00	68.85
23 21	13 23-0345	EA	2-1/2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	178.30 35.85	79.75
23 21	13 23-0346	EA	3", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	227.40 45.50	101.15
23 21	13 23-0347	EA	4", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	286.51 55.33	123.01
23 21	13 23-0348	EA	5", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	363.77 65.87	146.52
23 21	13 23-0349	EA	6", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	415.31 75.65	168.20
23 21	13 23-0350		150 LB, Black Malleable Iron Flanges <small>(23 21 13 23-0014)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21	13 23-0351	EA	1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	86.89 21.32	47.33
23 21	13 23-0352	EA	3/4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	94.88 23.34	51.87
23 21	13 23-0353	EA	1", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	110.08 26.37	58.61
23 21	13 23-0354	EA	1-1/4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	114.70 27.30	60.69
23 21	13 23-0355	EA	1-1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	124.86 29.70	66.01
23 21	13 23-0356	EA	2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	137.05 30.99	68.85
23 21	13 23-0357	EA	2-1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	172.41 35.85	79.75
23 21	13 23-0358	EA	3", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	218.50 45.49	101.15
23 21	13 23-0359	EA	4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	297.99 55.32	123.01
23 21	13 23-0360		Cut And Thread Existing In-Place Black Steel Pipe <small>(23 21 13 23-0014)</small> Note: For use when connecting pipe to an existing in-place system.		
23 21	13 23-0361	EA	1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	42.25 12.68	
23 21	13 23-0362	EA	3/4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	46.48 13.94	
23 21	13 23-0363	EA	1", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	50.71 15.21	
23 21	13 23-0364	EA	1-1/4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	54.93 16.48	
23 21	13 23-0365	EA	1-1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	57.74 17.32	
23 21	13 23-0366	EA	2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	60.56 18.17	
23 21	13 23-0367	EA	2-1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	63.38 19.01	
23 21	13 23-0368	EA	3", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	66.19 19.86	
23 21	13 23-0369	EA	4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	69.01 20.70	
23 21	13 23-0370	EA	6", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	74.64 22.39	
23 21	13 23-0371	EA	8", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	80.27 24.08	
23 21	13 23-0372	EA	10", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	87.32 26.20	
23 21	13 23-0373	EA	12", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	92.95 27.89	
23 21	13 23-0374		Welded Black Steel Pipe <small>(23 21 13 23)</small>		
23 21	13 23-0375		Welded Plain End Black Steel Pipe Assemblies <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
23 21	13 23-0376	LF	3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.80 7.19	9.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.25 8.06	10.49
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	39.64 9.24	11.15
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	42.34 9.67	11.15
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	48.55 11.19	11.15
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	56.27 12.97	11.15
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	64.64 13.68	10.89
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	80.41 15.54	12.52
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	107.75 17.89	18.66
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	163.33 26.54	23.18
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	216.51 31.65	28.98
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	270.94 36.57	35.00
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	299.52 40.80	45.67
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	347.51 45.59	57.95
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	437.75 50.03	71.74
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	556.29 57.26	88.67
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	683.73 62.96	100.49
23 21 13 23-0393 Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394 Welded Plain End Black Steel Piping <small>(23 21 13 23-0393)</small> Note: ASTM A-53		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.84 2.04 0.28 3.15	5.25
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.24 2.59 0.37 3.94	6.55
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.32 3.28 0.55 4.72	7.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0398	LF	1-1/2" Schedule 40, Welded Plain End Black Steel Pipe	24.45	9.18
			<i>For Schedule 80 Pipe, Add</i>	3.97	
			<i>For Schedule A-106 Pipe, Add</i>	0.73	
			<i>For Work In Restricted Working Space, Add</i>	5.51	
23 21	13 23-0399	LF	2" Schedule 40, Welded Plain End Black Steel Pipe	29.05	10.89
			<i>For Schedule 80 Pipe, Add</i>	4.72	
			<i>For Schedule A-106 Pipe, Add</i>	0.87	
			<i>For Work In Restricted Working Space, Add</i>	6.53	
23 21	13 23-0400	LF	2-1/2" Schedule 40, Welded Plain End Black Steel Pipe	33.14	12.33
			<i>For Schedule 80 Pipe, Add</i>	7.28	
			<i>For Schedule A-106 Pipe, Add</i>	1.02	
			<i>For Work In Restricted Working Space, Add</i>	7.40	
23 21	13 23-0401	LF	3" Schedule 40, Welded Plain End Black Steel Pipe	39.97	13.25
			<i>For Schedule 80 Pipe, Add</i>	9.35	
			<i>For Schedule A-106 Pipe, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	7.95	
23 21	13 23-0402	LF	4" Schedule 40, Welded Plain End Black Steel Pipe	54.37	16.40
			<i>For Schedule 80 Pipe, Add</i>	13.29	
			<i>For Schedule A-106 Pipe, Add</i>	2.59	
			<i>For Work In Restricted Working Space, Add</i>	9.84	
23 21	13 23-0403	LF	6" Schedule 40, Welded Plain End Black Steel Pipe	76.84	26.56
			<i>For Schedule 80 Pipe, Add</i>	19.78	
			<i>For Schedule A-106 Pipe, Add</i>	4.34	
			<i>For Work In Restricted Working Space, Add</i>	12.20	
23 21	13 23-0404	LF	8" Schedule 40, Welded Plain End Black Steel Pipe	104.38	24.92
			<i>For Schedule 80 Pipe, Add</i>	27.81	
			<i>For Schedule A-106 Pipe, Add</i>	6.54	
			<i>For Schedule 30 Pipe, Deduct</i>	-15.89	
			<i>For Work In Restricted Working Space, Add</i>	14.95	
23 21	13 23-0405	LF	10" Schedule 40, Welded Plain End Black Steel Pipe	137.24	30.02
			<i>For Schedule 80 Pipe, Add</i>	37.53	
			<i>For Schedule A-106 Pipe, Add</i>	9.26	
			<i>For Schedule 30 Pipe, Deduct</i>	-21.44	
			<i>For Work In Restricted Working Space, Add</i>	18.01	
23 21	13 23-0406	LF	12" Schedule 40, Welded Plain End Black Steel Pipe	174.65	36.27
			<i>For Schedule 80 Pipe, Add</i>	48.43	
			<i>For Schedule A-106 Pipe, Add</i>	12.25	
			<i>For Schedule 30 Pipe, Deduct</i>	-27.67	
			<i>For Work In Restricted Working Space, Add</i>	21.77	
23 21	13 23-0407	LF	14" Schedule 40, Welded Plain End Black Steel Pipe	169.59	38.25
			<i>For Schedule 80 Pipe, Add</i>	45.97	
			<i>For Schedule A-106 Pipe, Add</i>	11.17	
			<i>For Schedule 30 Pipe, Deduct</i>	-26.27	
			<i>For Schedule 20 Pipe, Deduct</i>	-47.88	
			<i>For Work In Restricted Working Space, Add</i>	22.95	
23 21	13 23-0408	LF	16" Schedule 40, Welded Plain End Black Steel Pipe	186.34	41.15
			<i>For Schedule 80 Pipe, Add</i>	50.82	
			<i>For Schedule A-106 Pipe, Add</i>	12.49	
			<i>For Schedule 30 Pipe, Deduct</i>	-29.04	
			<i>For Schedule 20 Pipe, Deduct</i>	-52.88	
			<i>For Work In Restricted Working Space, Add</i>	24.69	
23 21	13 23-0409	LF	18" Schedule 40, Welded Plain End Black Steel Pipe	233.22	44.51
			<i>For Schedule 80 Pipe, Add</i>	66.05	
			<i>For Schedule A-106 Pipe, Add</i>	17.31	
			<i>For Schedule 30 Pipe, Deduct</i>	-37.74	
			<i>For Schedule 20 Pipe, Deduct</i>	-68.28	
			<i>For Work In Restricted Working Space, Add</i>	26.70	
23 21	13 23-0410	LF	20" Schedule 40, Welded Plain End Black Steel Pipe	275.96	53.32
			<i>For Schedule 80 Pipe, Add</i>	77.93	
			<i>For Schedule A-106 Pipe, Add</i>	20.32	
			<i>For Work In Restricted Working Space, Add</i>	31.99	
23 21	13 23-0411	LF	24" Schedule 40, Welded Plain End Black Steel Pipe	341.37	61.32
			<i>For Schedule 80 Pipe, Add</i>	98.02	
			<i>For Schedule A-106 Pipe, Add</i>	26.25	
			<i>For Work In Restricted Working Space, Add</i>	36.79	
23 21	13 23-0412		Welded Plain End Black Steel 90 Degree Elbows (23 21 13 23-0393)		
23 21	13 23-0413	EA	3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	131.81	73.49
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	27.98	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
23 21	13 23-0414	EA	1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	137.59	77.31
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	29.11	
			<i>For Work In Restricted Working Space, Add</i>	34.77	
23 21	13 23-0415	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	153.81	88.09
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	32.27	
			<i>For Work In Restricted Working Space, Add</i>	39.63	
23 21	13 23-0416	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	164.25	95.04
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	34.31	
			<i>For Work In Restricted Working Space, Add</i>	42.77	
23 21	13 23-0417	EA	2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	207.12	123.68
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	42.67	
			<i>For Work In Restricted Working Space, Add</i>	55.63	
23 21	13 23-0418	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	260.72	154.62
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	53.88	
			<i>For Work In Restricted Working Space, Add</i>	69.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0419 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	300.39 62.21 79.74	177.36
23 21 13 23-0420 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	516.63 106.75 137.83	306.44
23 21 13 23-0421 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	898.88 190.05 227.48	505.70
23 21 13 23-0422 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,202.74 261.94 282.53	628.11
23 21 13 23-0423 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,555.48 353.63 322.89	717.93
23 21 13 23-0424 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,103.07 483.06 422.47	939.31
23 21 13 23-0425 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,605.07 606.74 499.38	1,110.28
23 21 13 23-0426 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,231.07 765.23 583.13	1,296.54
23 21 13 23-0427 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,824.24 919.69 650.23	1,445.72
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,865.49 1,204.46 729.10	1,620.96
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	5,693.84 1,444.46 753.40	1,675.10
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	695.55 160.34 138.08	306.96
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,209.79 284.23 224.88	499.93
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,288.70 307.90 224.88	499.93
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,912.53 474.88 282.53	628.11
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,100.66 531.31 282.53	628.11
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,628.01 675.39 322.89	717.93
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,628.01 675.39 322.89	717.93
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,316.02 1,144.13 430.51	957.16
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,316.02 1,144.13 430.51	957.16
23 21 13 23-0440 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,827.77 1,297.65 430.51	957.16
23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0442 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	128.73 26.91 33.45	74.38
23 21 13 23-0443 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	132.67 27.68 34.63	77.00
23 21 13 23-0444 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	149.73 31.01 39.75	88.42
23 21 13 23-0445 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	160.21 33.05 42.89	95.37
23 21 13 23-0446 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	202.20 41.24 55.49	123.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0447	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.24 51.29 69.66	154.92
23 21	13 23-0448	EA	3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	291.02 59.40 79.73	177.23
23 21	13 23-0449	EA	4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	501.06 102.09 137.79	306.30
23 21	13 23-0450	EA	6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	860.06 178.49 227.22	505.17
23 21	13 23-0451	EA	8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,132.31 240.81 282.53	628.11
23 21	13 23-0452	EA	10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,426.18 314.84 322.89	717.93
23 21	13 23-0453	EA	12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,912.93 426.29 421.68	937.57
23 21	13 23-0454	EA	14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,353.49 531.03 500.04	1,111.79
23 21	13 23-0455	EA	16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,881.68 660.62 582.53	1,295.15
23 21	13 23-0456	EA	18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,374.66 785.08 649.48	1,443.97
23 21	13 23-0457	EA	20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,208.35 1,007.32 729.10	1,620.96
23 21	13 23-0458	EA	24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,835.04 1,186.82 753.40	1,675.10
23 21	13 23-0459		Welded Plain End Black Steel Tee <small>(23 21 13 23-0393)</small>		
23 21	13 23-0460	EA	3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.91 56.53 62.97	139.97
23 21	13 23-0461	EA	1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21	13 23-0462	EA	1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.12 64.33 70.02	155.71
23 21	13 23-0463	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.07 69.97 78.71	175.00
23 21	13 23-0464	EA	2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	405.73 84.94 105.08	233.63
23 21	13 23-0465	EA	2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.46 97.42 118.07	262.49
23 21	13 23-0466	EA	3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.78 116.00 143.25	318.76
23 21	13 23-0467	EA	4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	796.53 166.47 207.12	460.57
23 21	13 23-0468	EA	6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,333.83 280.38 342.20	760.84
23 21	13 23-0469	EA	8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,792.67 387.12 430.51	957.16
23 21	13 23-0470	EA	10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,273.85 506.36 502.27	1,116.65
23 21	13 23-0471	EA	12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,064.55 693.35 645.77	1,435.74
23 21	13 23-0472	EA	14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,977.61 929.59 753.40	1,675.10
23 21	13 23-0473	EA	16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,786.24 1,119.45 904.08	2,010.07
23 21	13 23-0474	EA	18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,244.00 1,521.61 1,004.53	2,233.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,237.36 2,075.67 1,130.10	2,512.64
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,509.41 2,426.86 1,217.03	2,705.92
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees <small>(23 21 13 23-0393)</small>		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	255.36 55.26 61.00	135.64
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	292.79 63.33 70.02	155.71
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	321.74 68.97 78.71	175.00
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	413.22 87.18 105.11	233.63
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.62 97.45 118.11	262.62
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	554.13 116.10 143.25	318.76
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	797.02 166.61 207.12	460.57
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,334.67 280.63 342.20	760.84
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,794.28 387.60 430.51	957.16
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,276.59 507.18 502.27	1,116.65
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,068.69 694.59 645.77	1,435.74
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,984.28 931.59 753.40	1,675.10
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,794.30 1,121.86 904.08	2,010.07
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,257.19 1,525.57 1,004.53	2,233.42
23 21 13 23-0493 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,365.50 2,114.12 1,130.10	2,512.64
23 21 13 23-0494 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,081.78 2,598.57 1,217.03	2,705.92
23 21 13 23-0495 Welded Plain End Black Steel Eccentric Reducers <small>(23 21 13 23-0393)</small>		
23 21 13 23-0496 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.67 51.87 38.37	85.31
23 21 13 23-0497 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.11 54.30 42.10	93.61
23 21 13 23-0498 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.85 53.66 41.12	91.43
23 21 13 23-0499 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.20 57.24 46.63	103.68
23 21 13 23-0500 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.02 55.45 43.87	97.55
23 21 13 23-0501 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.75 54.81 42.89	95.37
23 21 13 23-0502 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	239.98 52.51 55.68	123.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0503	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	267.77	119.85
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	61.46	
			<i>For Work In Restricted Working Space, Add</i>	53.91	
23 21	13 23-0504	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	258.59	113.73
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	59.67	
			<i>For Work In Restricted Working Space, Add</i>	51.15	
23 21	13 23-0505	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	299.16	157.47
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	64.96	
			<i>For Work In Restricted Working Space, Add</i>	70.82	
23 21	13 23-0506	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	285.77	141.28
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	63.49	
			<i>For Work In Restricted Working Space, Add</i>	63.55	
23 21	13 23-0507	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	339.69	137.34
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	80.29	
			<i>For Work In Restricted Working Space, Add</i>	61.78	
23 21	13 23-0508	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	334.06	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	72.39	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0509	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	338.95	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	73.86	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0510	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	349.29	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	76.96	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0511	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	550.56	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	116.84	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0512	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	555.44	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	118.30	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0513	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	570.14	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	122.71	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0514	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	935.56	499.93
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	201.96	
			<i>For Work In Restricted Working Space, Add</i>	224.88	
23 21	13 23-0515	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,041.05	499.93
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	233.61	
			<i>For Work In Restricted Working Space, Add</i>	224.88	
23 21	13 23-0516	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,377.78	760.84
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	293.56	
			<i>For Work In Restricted Working Space, Add</i>	342.21	
23 21	13 23-0517	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,574.07	760.84
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	352.45	
			<i>For Work In Restricted Working Space, Add</i>	342.21	
23 21	13 23-0518	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,622.28	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	348.95	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0519	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,858.28	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	419.75	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0520	EA	10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,168.78	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	512.90	
			<i>For Concentric Reducers, Deduct</i>	-274.24	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0521	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,916.82	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	424.65	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0522	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,192.51	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	507.36	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0523	EA	12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,658.53	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	647.17	
			<i>For Concentric Reducers, Deduct</i>	-392.39	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0524	EA	12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	1,909.00	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	422.31	
			<i>For Concentric Reducers, Deduct</i>	-152.54	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0525	EA	14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,524.67	1,116.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	581.61	
			<i>For Work In Restricted Working Space, Add</i>	502.26	
23 21	13 23-0526	EA	14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,669.85	1,116.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	625.16	
			<i>For Work In Restricted Working Space, Add</i>	502.26	
23 21	13 23-0527	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	4,117.31	1,116.65
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	1,059.40	
			<i>For Work In Restricted Working Space, Add</i>	502.26	
23 21	13 23-0528	EA	16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	3,184.18	1,256.32
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	757.49	
			<i>For Work In Restricted Working Space, Add</i>	565.05	
23 21	13 23-0529	EA	16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	3,611.59	1,256.32
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	885.71	
			<i>For Work In Restricted Working Space, Add</i>	565.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0530 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,777.98 935.63 -606.24 565.05	1,256.32
23 21 13 23-0531 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,652.36 1,497.94 565.05	1,256.32
23 21 13 23-0532 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,585.06 1,777.75 565.05	1,256.32
23 21 13 23-0533 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,495.65 1,122.68 645.77	1,435.74
23 21 13 23-0534 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,572.70 545.79 -134.44 645.77	1,435.74
23 21 13 23-0535 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,720.24 1,190.05 -821.66 645.77	1,435.74
23 21 13 23-0536 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,051.39 1,289.40 645.77	1,435.74
23 21 13 23-0537 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,850.96 2,129.27 645.77	1,435.74
23 21 13 23-0538 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,373.20 1,356.78 -941.72 729.10	1,620.96
23 21 13 23-0539 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,365.59 1,354.49 -939.29 729.10	1,620.96
23 21 13 23-0540 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9,069.21 2,465.58 -2,124.44 729.10	1,620.96
23 21 13 23-0541 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,554.77 2,911.25 729.10	1,620.96
23 21 13 23-0542 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,783.18 3,579.77 729.10	1,620.96
23 21 13 23-0543 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,369.92 1,647.29 -1,234.75 753.40	1,675.10
23 21 13 23-0544 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,818.91 1,781.98 -1,378.43 753.40	1,675.10
23 21 13 23-0545 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,904.96 2,407.80 -2,045.96 753.40	1,675.10
23 21 13 23-0546 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,786.93 3,572.39 753.40	1,675.10
23 21 13 23-0547 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,697.70 4,445.62 753.40	1,675.10
23 21 13 23-0548 Welded Plain End Black Steel Concentric Reducers <small>(23 21 13 23-0393)</small>		
23 21 13 23-0549 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.16 44.82 38.37	85.31
23 21 13 23-0550 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.60 47.25 42.10	93.61
23 21 13 23-0551 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.34 46.61 41.12	91.43
23 21 13 23-0552 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 50.19 46.63	103.68
23 21 13 23-0553 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.51 48.40 43.87	97.55
23 21 13 23-0554 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.24 47.76 42.89	95.37

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0555	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.00 48.91 55.68	123.79
23 21	13 23-0556	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.10 47.76 53.91	119.85
23 21	13 23-0557	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.24 50.87 51.15	113.73
23 21	13 23-0558	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.47 62.35 70.82	157.47
23 21	13 23-0559	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.88 62.02 63.55	141.28
23 21	13 23-0560	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.36 67.89 61.78	137.34
23 21	13 23-0561	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.05 64.89 79.50	176.70
23 21	13 23-0562	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	312.31 65.87 79.50	176.70
23 21	13 23-0563	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.39 67.99 79.50	176.70
23 21	13 23-0564	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.85 106.72 138.09	306.96
23 21	13 23-0565	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0566	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0567	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	868.15 181.74 224.88	499.93
23 21	13 23-0568	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	893.15 189.24 224.88	499.93
23 21	13 23-0569	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,296.21 269.09 342.21	760.84
23 21	13 23-0570	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,340.81 282.47 342.21	760.84
23 21	13 23-0571	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,613.59 346.34 393.54	874.97
23 21	13 23-0572	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,595.10 340.79 393.54	874.97
23 21	13 23-0573	EA	10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,827.83 410.61 393.54	874.97
23 21	13 23-0574	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,805.35 391.21 429.70	955.30
23 21	13 23-0575	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,861.23 407.98 429.70	955.30
23 21	13 23-0576	EA	12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,881.47 414.05 429.70	955.30
23 21	13 23-0577	EA	12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,474.73 592.03 429.70	955.30
23 21	13 23-0578	EA	14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,235.38 494.82 502.26	1,116.65
23 21	13 23-0579	EA	14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,442.55 556.97 502.26	1,116.65
23 21	13 23-0580	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,622.54 610.97 502.26	1,116.65
23 21	13 23-0581	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,318.15 819.65 502.26	1,116.65
23 21	13 23-0582	EA	16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0583 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32
23 21 13 23-0584 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,968.85 692.89 565.05	1,256.32
23 21 13 23-0585 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,311.96 795.82 565.05	1,256.32
23 21 13 23-0586 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,732.96 1,222.12 565.05	1,256.32
23 21 13 23-0587 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,225.42 741.61 645.77	1,435.74
23 21 13 23-0588 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,490.24 821.05 645.77	1,435.74
23 21 13 23-0589 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,601.16 854.33 645.77	1,435.74
23 21 13 23-0590 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,902.94 944.86 645.77	1,435.74
23 21 13 23-0591 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,371.00 1,985.28 645.77	1,435.74
23 21 13 23-0592 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0593 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0594 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,347.11 1,048.95 729.10	1,620.96
23 21 13 23-0595 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,794.64 1,183.21 729.10	1,620.96
23 21 13 23-0596 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	5,573.30 1,416.81 729.10	1,620.96
23 21 13 23-0597 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,593.98 1,114.50 753.40	1,675.10
23 21 13 23-0598 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,641.27 1,128.69 753.40	1,675.10
23 21 13 23-0599 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,733.71 1,156.42 753.40	1,675.10
23 21 13 23-0600 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,873.99 1,798.51 753.40	1,675.10
23 21 13 23-0601 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,296.50 1,925.26 753.40	1,675.10
23 21 13 23-0602 Welded Plain End Black Steel Caps <small>(23 21 13 23-0393)</small>		
23 21 13 23-0603 EA 1" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	76.62 14.79 19.68	43.81
23 21 13 23-0604 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	83.86 16.14 21.65	48.14
23 21 13 23-0605 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	87.17 16.80 22.43	49.85
23 21 13 23-0606 EA 2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	108.18 20.48 28.73	63.88
23 21 13 23-0607 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	127.84 23.92 34.63	77.00
23 21 13 23-0608 EA 3" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	151.10 28.68 39.95	88.81
23 21 13 23-0609 EA 4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	253.98 47.43 69.04	153.48
23 21 13 23-0610 EA 6" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	425.51 80.12 114.07	253.57

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0611	EA	8" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	600.87 113.65 159.88	355.49
23 21	13 23-0612	EA	10" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	791.93 153.49 201.81	448.76
23 21	13 23-0613	EA	12" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	849.90 167.37 210.25	467.45
23 21	13 23-0614	EA	14" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.31 230.55 251.13	558.32
23 21	13 23-0615	EA	16" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,297.61 267.77 291.64	648.39
23 21	13 23-0616	EA	18" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,450.63 300.65 322.89	717.93
23 21	13 23-0617		150 LB, Welded Plain End Black Steel Neck Flanges <small>(23 21 13 23-0393)</small>		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21	13 23-0618	EA	2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.78 40.41 44.49	98.91
23 21	13 23-0619	EA	2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.53 44.27 55.51	123.44
23 21	13 23-0620	EA	3", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.10 47.09 63.47	141.15
23 21	13 23-0621	EA	4", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	324.37 60.99 83.73	186.14
23 21	13 23-0622	EA	6", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	492.81 93.19 126.95	282.30
23 21	13 23-0623	EA	8", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.31 119.11 122.17	271.68
23 21	13 23-0624	EA	10", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	670.15 165.19 153.23	340.65
23 21	13 23-0625	EA	12", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	811.91 223.51 173.86	386.55
23 21	13 23-0626	EA	14", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,053.60 320.52 210.25	467.45
23 21	13 23-0627	EA	16", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,365.61 471.31 244.34	543.26
23 21	13 23-0628	EA	18", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,678.33 631.47 273.96	609.09
23 21	13 23-0629	EA	20", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,128.14 800.05 347.72	773.10
23 21	13 23-0630	EA	24", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,406.40 937.36 376.70	837.54
23 21	13 23-0631		150 LB, Welded Black Steel Slip-On Flanges <small>(23 21 13 23-0393)</small>		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21	13 23-0632	EA	2", 150 LB, Welded Black Steel Slip-On Flanges <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.05 27.68 35.42	98.91
23 21	13 23-0633	EA	2-1/2", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.09 34.77 43.29	123.44
23 21	13 23-0634	EA	3", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.19 41.00 51.16	141.15
23 21	13 23-0635	EA	4", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.01 54.92 66.90	186.14
23 21	13 23-0636	EA	6", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	381.82 82.92 98.39	282.30
23 21	13 23-0637	EA	8", 150 LB, Welded Black Steel Slip-On Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	452.87 112.71 111.27	271.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0638 EA 10", 150 LB, Welded Black Steel Slip-On Flange	605.12	340.65
For 300 LB Rating, Add	176.02	
For Work In Restricted Working Space, Add	139.09	
23 21 13 23-0639 EA 12", 150 LB, Welded Black Steel Slip-On Flange	779.60	386.55
For 300 LB Rating, Add	259.34	
For Work In Restricted Working Space, Add	166.91	
23 21 13 23-0640 EA 14", 150 LB, Welded Black Steel Slip-On Flange	975.25	467.45
For 300 LB Rating, Add	361.71	
For Work In Restricted Working Space, Add	194.72	
23 21 13 23-0641 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,157.78	543.26
For 300 LB Rating, Add	470.69	
For Work In Restricted Working Space, Add	215.59	
23 21 13 23-0642 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,280.57	609.09
For 300 LB Rating, Add	525.92	
For Work In Restricted Working Space, Add	236.45	
23 21 13 23-0643 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,417.40	773.10
For 300 LB Rating, Add	593.78	
For Work In Restricted Working Space, Add	257.31	
23 21 13 23-0644 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,625.66	837.54
For 300 LB Rating, Add	670.64	
For Work In Restricted Working Space, Add	299.04	
23 21 13 23-0645 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)		
23 21 13 23-0646 EA 2", 150 LB, Forged Steel Blind Flange	90.48	35.22
For 300 LB Rating, Add	23.42	
For 600 LB Rating, Add	58.64	
For Work In Restricted Working Space, Add	21.14	
23 21 13 23-0647 EA 2-1/2", 150 LB, Forged Steel Blind Flange	117.01	42.27
For 300 LB Rating, Add	34.86	
For 600 LB Rating, Add	90.63	
For Work In Restricted Working Space, Add	25.36	
23 21 13 23-0648 EA 3", 150 LB, Forged Steel Blind Flange	146.31	56.36
For 300 LB Rating, Add	38.71	
For 600 LB Rating, Add	97.55	
For Work In Restricted Working Space, Add	33.81	
23 21 13 23-0649 EA 4", 150 LB, Forged Steel Blind Flange	187.19	70.45
For 300 LB Rating, Add	51.83	
For 600 LB Rating, Add	132.25	
For Work In Restricted Working Space, Add	42.27	
23 21 13 23-0650 EA 6", 150 LB, Forged Steel Blind Flange	253.32	91.58
For 300 LB Rating, Add	75.36	
For 600 LB Rating, Add	195.86	
For Work In Restricted Working Space, Add	54.95	
23 21 13 23-0651 EA 8", 150 LB, Forged Steel Blind Flange	322.64	105.67
For 300 LB Rating, Add	111.23	
For 600 LB Rating, Add	298.82	
For Work In Restricted Working Space, Add	63.40	
23 21 13 23-0652 EA 10", 150 LB, Forged Steel Blind Flange	470.94	126.80
For 300 LB Rating, Add	200.50	
For 600 LB Rating, Add	559.66	
For Work In Restricted Working Space, Add	76.08	
23 21 13 23-0653 EA 12", 150 LB, Forged Steel Blind Flange	603.48	147.93
For 300 LB Rating, Add	277.15	
For 600 LB Rating, Add	782.64	
For Work In Restricted Working Space, Add	88.76	
23 21 13 23-0654 EA 14", 150 LB, Forged Steel Blind Flange	971.49	169.07
For 300 LB Rating, Add	542.19	
For Work In Restricted Working Space, Add	101.44	
23 21 13 23-0655 EA 16", 150 LB, Forged Steel Blind Flange	1,048.00	190.20
For 300 LB Rating, Add	574.02	
For Work In Restricted Working Space, Add	114.12	
23 21 13 23-0656 EA 18", 150 LB, Forged Steel Blind Flange	1,190.04	232.46
For 300 LB Rating, Add	628.90	
For Work In Restricted Working Space, Add	139.48	
23 21 13 23-0657 EA 20", 150 LB, Forged Steel Blind Flange	1,499.99	253.60
For 300 LB Rating, Add	847.49	
For Work In Restricted Working Space, Add	152.16	
23 21 13 23-0658 EA 24", 150 LB, Forged Steel Blind Flange	2,013.07	295.87
For 300 LB Rating, Add	1,199.20	
For Work In Restricted Working Space, Add	177.52	
23 21 13 23-0659 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0660 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let	93.52	
For Weld-O-Lets, Add	5.44	
For Sock-O-Lets, Add	36.08	
For Work In Restricted Working Space, Add	24.79	
23 21 13 23-0661 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let	99.35	
For Weld-O-Lets, Add	6.39	
For Sock-O-Lets, Add	38.39	
For Work In Restricted Working Space, Add	25.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0662	EA	1", 3,000 LB, Forge Steel Thread-O-Let	106.15	
			<i>For Weld-O-Lets, Add</i>	7.16	
			<i>For Sock-O-Lets, Add</i>	41.05	
			<i>For Work In Restricted Working Space, Add</i>	27.55	
23 21	13 23-0663	EA	1-1/4", 3,000 LB, Forge Steel Thread-O-Let	118.69	
			<i>For Weld-O-Lets, Add</i>	10.16	
			<i>For Sock-O-Lets, Add</i>	46.12	
			<i>For Work In Restricted Working Space, Add</i>	29.51	
23 21	13 23-0664	EA	1-1/2", 3,000 LB, Forge Steel Thread-O-Let	131.81	
			<i>For Weld-O-Lets, Add</i>	10.16	
			<i>For Sock-O-Lets, Add</i>	51.10	
			<i>For Work In Restricted Working Space, Add</i>	33.45	
23 21	13 23-0665	EA	2", 3,000 LB, Forge Steel Thread-O-Let	171.16	
			<i>For Weld-O-Lets, Add</i>	12.70	
			<i>For Sock-O-Lets, Add</i>	66.31	
			<i>For Work In Restricted Working Space, Add</i>	43.73	
23 21	13 23-0666	EA	2-1/2", 3,000 LB, Forge Steel Thread-O-Let	279.57	
			<i>For Weld-O-Lets, Add</i>	46.09	
			<i>For Sock-O-Lets, Add</i>	110.85	
			<i>For Work In Restricted Working Space, Add</i>	56.22	
23 21	13 23-0667	EA	3", 3,000 LB, Forge Steel Thread-O-Let	355.08	
			<i>For Weld-O-Lets, Add</i>	46.36	
			<i>For Sock-O-Lets, Add</i>	139.57	
			<i>For Work In Restricted Working Space, Add</i>	78.71	
23 21	13 23-0668	EA	4", 3,000 LB, Forge Steel Thread-O-Let	509.44	
			<i>For Weld-O-Lets, Add</i>	90.75	
			<i>For Sock-O-Lets, Add</i>	202.66	
			<i>For Work In Restricted Working Space, Add</i>	98.39	
23 21	13 23-0669		Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0670	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	13.88	
			Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	3.89	
			<i>For Hot Dip Galvanized, Add</i>	5.55	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	9.72	
23 21	13 23-0671	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	17.64	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	4.94	
			<i>For Hot Dip Galvanized, Add</i>	7.06	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	12.35	
23 21	13 23-0672	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	17.83	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	4.99	
			<i>For Hot Dip Galvanized, Add</i>	7.13	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	12.48	
23 21	13 23-0673	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	17.91	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	5.01	
			<i>For Hot Dip Galvanized, Add</i>	7.16	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	12.54	
23 21	13 23-0674	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	40.15	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	11.24	
			<i>For Hot Dip Galvanized, Add</i>	16.06	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	28.11	
23 21	13 23-0675	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	57.34	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	16.06	
			<i>For Hot Dip Galvanized, Add</i>	22.94	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	40.14	
23 21	13 23-0676	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	61.99	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	17.36	
			<i>For Hot Dip Galvanized, Add</i>	24.80	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	43.39	
23 21	13 23-0677	EA	8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	67.91	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	19.01	
			<i>For Hot Dip Galvanized, Add</i>	27.16	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	47.54	
23 21	13 23-0678	EA	10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	150.29	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	42.08	
			<i>For Hot Dip Galvanized, Add</i>	60.12	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	105.20	
23 21	13 23-0679	EA	12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	153.08	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	42.86	
			<i>For Hot Dip Galvanized, Add</i>	61.23	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	107.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0680 EA 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	171.68	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	48.07	
For Hot Dip Galvanized, Add	68.67	
For Advanced Fluoropolymer (Blue Coating), Add	120.18	
23 21 13 23-0681 EA 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	285.39	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	79.91	
For Hot Dip Galvanized, Add	114.16	
For Advanced Fluoropolymer (Blue Coating), Add	199.77	
23 21 13 23-0682 EA 18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	411.68	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	115.27	
For Hot Dip Galvanized, Add	164.67	
For Advanced Fluoropolymer (Blue Coating), Add	288.18	
23 21 13 23-0683 EA 20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	520.10	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	145.63	
For Hot Dip Galvanized, Add	208.04	
For Advanced Fluoropolymer (Blue Coating), Add	364.07	
23 21 13 23-0684 EA 24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	741.44	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	207.60	
For Hot Dip Galvanized, Add	296.58	
For Advanced Fluoropolymer (Blue Coating), Add	519.01	
23 21 13 23-0685 EA 30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,170.54	
Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	327.75	
For Hot Dip Galvanized, Add	468.22	
For Advanced Fluoropolymer (Blue Coating), Add	819.38	
23 21 13 23-0686 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,666.00	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	466.48	
For Hot Dip Galvanized, Add	666.40	
For Advanced Fluoropolymer (Blue Coating), Add	1,166.20	
23 21 13 23-0687 Class 300 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0688 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set	22.13	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	6.20	
For Hot Dip Galvanized, Add	8.85	
For Advanced Fluoropolymer (Blue Coating), Add	15.49	
23 21 13 23-0689 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	40.80	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	11.42	
For Hot Dip Galvanized, Add	16.32	
For Advanced Fluoropolymer (Blue Coating), Add	28.56	
23 21 13 23-0690 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	63.63	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	17.82	
For Hot Dip Galvanized, Add	25.45	
For Advanced Fluoropolymer (Blue Coating), Add	44.54	
23 21 13 23-0691 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	69.14	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.36	
For Hot Dip Galvanized, Add	27.66	
For Advanced Fluoropolymer (Blue Coating), Add	48.40	
23 21 13 23-0692 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	70.57	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.76	
For Hot Dip Galvanized, Add	28.23	
For Advanced Fluoropolymer (Blue Coating), Add	49.40	
23 21 13 23-0693 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	75.70	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	21.20	
For Hot Dip Galvanized, Add	30.28	
For Advanced Fluoropolymer (Blue Coating), Add	52.99	
23 21 13 23-0694 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	109.18	
Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	30.57	
For Hot Dip Galvanized, Add	43.67	
For Advanced Fluoropolymer (Blue Coating), Add	76.43	
23 21 13 23-0695 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	169.43	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	47.44	
For Hot Dip Galvanized, Add	67.77	
For Advanced Fluoropolymer (Blue Coating), Add	118.60	
23 21 13 23-0696 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	310.29	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	86.88	
For Hot Dip Galvanized, Add	124.12	
For Advanced Fluoropolymer (Blue Coating), Add	217.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0697	EA	12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	447.81	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	125.39	
			<i>For Hot Dip Galvanized, Add</i>	179.12	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	313.47	
23 21	13 23-0698	EA	14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	612.91	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	171.61	
			<i>For Hot Dip Galvanized, Add</i>	245.16	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	429.04	
23 21	13 23-0699	EA	16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	846.27	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	236.96	
			<i>For Hot Dip Galvanized, Add</i>	338.51	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	592.39	
23 21	13 23-0700	EA	18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,086.77	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	304.30	
			<i>For Hot Dip Galvanized, Add</i>	434.71	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	760.74	
23 21	13 23-0701	EA	20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,153.33	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	322.93	
			<i>For Hot Dip Galvanized, Add</i>	461.33	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	807.33	
23 21	13 23-0702	EA	24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,462.00	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	409.36	
			<i>For Hot Dip Galvanized, Add</i>	584.80	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	1,023.40	
23 21	13 23-0703	EA	30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,295.69	
			Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	642.79	
			<i>For Hot Dip Galvanized, Add</i>	918.28	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	1,606.98	
23 21	13 23-0704	EA	36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	3,482.97	
			Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	975.23	
			<i>For Hot Dip Galvanized, Add</i>	1,393.19	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	2,438.08	
23 21	13 23-0705		Class 150 Flange, Stainless Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0706	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	13.88	
			Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21	13 23-0707	EA	2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.31	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0708	EA	2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.39	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0709	EA	3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.47	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0710	EA	4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	87.50	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0711	EA	5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	111.05	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0712	EA	6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	125.31	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0713	EA	8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	126.11	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0714	EA	10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	324.91	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0715	EA	12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	326.43	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0716	EA	14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	493.77	
			Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21	13 23-0717	EA	16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	657.71	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21	13 23-0718	EA	18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	1,707.40	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
23 21	13 23-0719	EA	20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	1,978.35	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21	13 23-0720	EA	24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	2,284.27	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21	13 23-0721		150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
			Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21	13 23-0722	EA	1/2", 150 LB, Rubber Flange Gasket Replacement	39.24	
			<i>For 300 LB Rating Gasket Set, Add</i>	0.11	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	2.47	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	2.85	
			<i>For Work In Restricted Working Space, Add</i>	11.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0723 EA 3/4", 150 LB, Rubber Flange Gasket Replacement	41.95	
<i>For 300 LB Rating Gasket Set, Add</i>	0.15	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	3.32	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	3.83	
<i>For Work In Restricted Working Space, Add</i>	12.46	
23 21 13 23-0724 EA 1", 150 LB, Rubber Flange Gasket Replacement	46.15	
<i>For 300 LB Rating Gasket Set, Add</i>	0.26	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	5.80	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	6.68	
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 21 13 23-0725 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement	50.16	
<i>For 300 LB Rating Gasket Set, Add</i>	0.30	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	6.65	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	7.65	
<i>For Work In Restricted Working Space, Add</i>	14.79	
23 21 13 23-0726 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement	55.57	
<i>For 300 LB Rating Gasket Set, Add</i>	0.38	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	8.35	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	9.61	
<i>For Work In Restricted Working Space, Add</i>	16.35	
23 21 13 23-0727 EA 2", 150 LB, Rubber Flange Gasket Replacement	61.19	
<i>For 300 LB Rating Gasket Set, Add</i>	0.53	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	11.67	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	13.44	
<i>For Work In Restricted Working Space, Add</i>	17.90	
23 21 13 23-0728 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement	72.10	
<i>For 300 LB Rating Gasket Set, Add</i>	0.72	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	15.85	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	18.25	
<i>For Work In Restricted Working Space, Add</i>	21.02	
23 21 13 23-0729 EA 3", 150 LB, Rubber Flange Gasket Replacement	76.32	
<i>For 300 LB Rating Gasket Set, Add</i>	0.83	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	18.32	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	21.09	
<i>For Work In Restricted Working Space, Add</i>	22.19	
23 21 13 23-0730 EA 4", 150 LB, Rubber Flange Gasket Replacement	101.18	
<i>For 300 LB Rating Gasket Set, Add</i>	1.36	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	29.99	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	34.53	
<i>For Work In Restricted Working Space, Add</i>	29.19	
23 21 13 23-0731 EA 5", 150 LB, Rubber Flange Gasket Replacement	117.18	
<i>For 300 LB Rating Gasket Set, Add</i>	1.51	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	33.32	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	38.36	
<i>For Work In Restricted Working Space, Add</i>	33.86	
23 21 13 23-0732 EA 6", 150 LB, Rubber Flange Gasket Replacement	134.04	
<i>For 300 LB Rating Gasket Set, Add</i>	1.96	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	43.29	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	49.84	
<i>For Work In Restricted Working Space, Add</i>	38.53	
23 21 13 23-0733 EA 8", 150 LB, Rubber Flange Gasket Replacement	163.88	
<i>For 300 LB Rating Gasket Set, Add</i>	2.87	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	63.31	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	72.89	
<i>For Work In Restricted Working Space, Add</i>	46.71	
23 21 13 23-0734 EA 10", 150 LB, Rubber Flange Gasket Replacement	177.70	
<i>For 300 LB Rating Gasket Set, Add</i>	4.07	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	89.98	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	103.60	
<i>For Work In Restricted Working Space, Add</i>	49.82	
23 21 13 23-0735 EA 12", 150 LB, Rubber Flange Gasket Replacement	202.99	
<i>For 300 LB Rating Gasket Set, Add</i>	5.20	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	114.95	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	132.34	
<i>For Work In Restricted Working Space, Add</i>	56.44	
23 21 13 23-0736 EA 14", 150 LB, Rubber Flange Gasket Replacement	212.39	
<i>For 300 LB Rating Gasket Set, Add</i>	6.22	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	137.44	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	158.24	
<i>For Work In Restricted Working Space, Add</i>	58.38	
23 21 13 23-0737 EA 16", 150 LB, Rubber Flange Gasket Replacement	279.30	
<i>For 300 LB Rating Gasket Set, Add</i>	6.94	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	153.29	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	176.49	
<i>For Work In Restricted Working Space, Add</i>	77.84	
23 21 13 23-0738 EA 18", 150 LB, Rubber Flange Gasket Replacement	304.80	
<i>For 300 LB Rating Gasket Set, Add</i>	7.24	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	159.93	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	184.14	
<i>For Work In Restricted Working Space, Add</i>	85.23	
23 21 13 23-0739 EA 20", 150 LB, Rubber Flange Gasket Replacement	368.56	
<i>For 300 LB Rating Gasket Set, Add</i>	7.77	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	171.61	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	197.58	
<i>For Work In Restricted Working Space, Add</i>	103.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13	23-0740		Cut And Prepare For Welding Existing In-Place Black Steel Pipe <small>(23 21 13 23-0393)</small>		
			Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0741	EA		1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....28.17 <i>For Work In Restricted Working Space, Add</i> 8.45		
23 21 13 23-0742	EA		3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....30.42 <i>For Work In Restricted Working Space, Add</i> 9.13		
23 21 13 23-0743	EA		1", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....34.22 <i>For Work In Restricted Working Space, Add</i> 10.27		
23 21 13 23-0744	EA		1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....35.91 <i>For Work In Restricted Working Space, Add</i> 10.77		
23 21 13 23-0745	EA		1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....38.02 <i>For Work In Restricted Working Space, Add</i> 11.41		
23 21 13 23-0746	EA		2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....40.84 <i>For Work In Restricted Working Space, Add</i> 12.25		
23 21 13 23-0747	EA		2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....43.67 <i>For Work In Restricted Working Space, Add</i> 13.10		
23 21 13 23-0748	EA		3", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....47.89 <i>For Work In Restricted Working Space, Add</i> 14.37		
23 21 13 23-0749	EA		4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....52.11 <i>For Work In Restricted Working Space, Add</i> 15.63		
23 21 13 23-0750	EA		6", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....56.34 <i>For Work In Restricted Working Space, Add</i> 16.90		
23 21 13 23-0751	EA		8", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....60.56 <i>For Work In Restricted Working Space, Add</i> 18.17		
23 21 13 23-0752	EA		10", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....66.20 <i>For Work In Restricted Working Space, Add</i> 19.86		
23 21 13 23-0753	EA		12", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....71.83 <i>For Work In Restricted Working Space, Add</i> 21.55		
23 21 13 23-0754	EA		14", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....77.47 <i>For Work In Restricted Working Space, Add</i> 23.24		
23 21 13 23-0755	EA		16", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....83.10 <i>For Work In Restricted Working Space, Add</i> 24.93		
23 21 13 23-0756	EA		18", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....87.32 <i>For Work In Restricted Working Space, Add</i> 26.20		
23 21 13 23-0757	EA		20", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....91.54 <i>For Work In Restricted Working Space, Add</i> 27.46		
23 21 13 23-0758	EA		24", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....97.18 <i>For Work In Restricted Working Space, Add</i> 29.15		
23 21 13 23-0759			Welded Plain End Electric Resistance Black Steel Pipe <small>(23 21 13 23-0393)</small>		
			Note: ASTM A-135.		
23 21 13 23-0760	LF		2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....28.55 <i>For Work In Restricted Working Space, Add</i> 7.08	14.43	
23 21 13 23-0761	LF		2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....31.20 <i>For Work In Restricted Working Space, Add</i> 7.08	15.74	
23 21 13 23-0762	LF		3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....32.50 <i>For Work In Restricted Working Space, Add</i> 6.95	15.48	
23 21 13 23-0763	LF		4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....40.79 <i>For Work In Restricted Working Space, Add</i> 8.85	19.67	
23 21 13 23-0764	LF		6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....65.53 <i>For Work In Restricted Working Space, Add</i> 13.09	29.12	
23 21 13 23-0765	LF		8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....78.42 <i>For Work In Restricted Working Space, Add</i> 14.26	31.64	
23 21 13 23-0766	LF		10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....105.01 <i>For Work In Restricted Working Space, Add</i> 17.74	39.41	
23 21 13 23-0767	LF		12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....127.37 <i>For Work In Restricted Working Space, Add</i> 21.37	47.53	
23 21 13 23-0768	LF		14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....162.90 <i>For Work In Restricted Working Space, Add</i> 27.74	61.67	
23 21 13 23-0769			Flanged Steel Fittings <small>(23 21 13 23)</small>		
			See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0617 for welded neck flange ends.		
23 21 13 23-0770			Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0769)</small>		
			Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0771			Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0772	EA		2" Standard Weight, Flanged Steel, 90 Degree Elbow .....480.03 <i>For Galvanized Fittings, Add</i> 311.40 <i>For Extra Heavy Weight Fittings, Add</i> 467.10	60.55	
23 21 13 23-0773	EA		2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow .....535.39 <i>For Galvanized Fittings, Add</i> 347.39 <i>For Extra Heavy Weight Fittings, Add</i> 521.09	67.44	
23 21 13 23-0774	EA		3" Standard Weight, Flanged Steel, 90 Degree Elbow .....534.02 <i>For Galvanized Fittings, Add</i> 338.00 <i>For Extra Heavy Weight Fittings, Add</i> 507.00	74.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0775 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow	675.40	86.49
For Galvanized Fittings, Add	436.58	
For Extra Heavy Weight Fittings, Add	654.88	
23 21 13 23-0776 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow	937.42	96.86
For Galvanized Fittings, Add	633.75	
For Extra Heavy Weight Fittings, Add	950.63	
23 21 13 23-0777 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow	994.01	112.43
For Galvanized Fittings, Add	660.35	
For Extra Heavy Weight Fittings, Add	990.53	
23 21 13 23-0778 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow	1,256.08	124.49
For Galvanized Fittings, Add	855.48	
For Extra Heavy Weight Fittings, Add	1,283.22	
23 21 13 23-0779 Flanged Steel, Reducing 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0780 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	882.28	64.06
For Galvanized Fittings, Add	629.06	
For Extra Heavy Weight Fittings, Add	943.58	
23 21 13 23-0781 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	920.04	70.94
For Galvanized Fittings, Add	650.97	
For Extra Heavy Weight Fittings, Add	976.45	
23 21 13 23-0782 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,143.60	80.39
For Galvanized Fittings, Add	818.40	
For Extra Heavy Weight Fittings, Add	1,227.60	
23 21 13 23-0783 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,411.53	85.59
For Galvanized Fittings, Add	1,026.53	
For Extra Heavy Weight Fittings, Add	1,539.79	
23 21 13 23-0784 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,608.33	99.46
For Galvanized Fittings, Add	1,167.36	
For Extra Heavy Weight Fittings, Add	1,751.04	
23 21 13 23-0785 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	2,237.36	118.52
For Galvanized Fittings, Add	1,647.76	
For Extra Heavy Weight Fittings, Add	2,471.64	
23 21 13 23-0786 Flanged Steel, 45 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0787 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow	620.86	60.55
For Galvanized Fittings, Add	424.06	
For Extra Heavy Weight Fittings, Add	636.10	
23 21 13 23-0788 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow	648.84	67.44
For Galvanized Fittings, Add	438.15	
For Extra Heavy Weight Fittings, Add	657.23	
23 21 13 23-0789 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow	674.86	74.44
For Galvanized Fittings, Add	450.67	
For Extra Heavy Weight Fittings, Add	676.01	
23 21 13 23-0790 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow	839.71	86.49
For Galvanized Fittings, Add	568.03	
For Extra Heavy Weight Fittings, Add	852.05	
23 21 13 23-0791 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow	1,203.44	96.86
For Galvanized Fittings, Add	846.57	
For Extra Heavy Weight Fittings, Add	1,269.85	
23 21 13 23-0792 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow	1,177.88	112.43
For Galvanized Fittings, Add	807.45	
For Extra Heavy Weight Fittings, Add	1,211.17	
23 21 13 23-0793 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow	1,387.02	124.49
For Galvanized Fittings, Add	960.23	
For Extra Heavy Weight Fittings, Add	1,440.35	
23 21 13 23-0794 Flanged Steel, Tees <small>(23 21 13 23-0770)</small>		
23 21 13 23-0795 EA 2" Standard Weight, Flanged Steel, Tee	619.30	90.78
For Galvanized Fittings, Add	386.51	
For Extra Heavy Weight Fittings, Add	579.77	
23 21 13 23-0796 EA 2-1/2" Standard Weight, Flanged Steel, Tee	795.24	101.15
For Galvanized Fittings, Add	514.82	
For Extra Heavy Weight Fittings, Add	772.24	
23 21 13 23-0797 EA 3" Standard Weight, Flanged Steel, Tee	730.63	111.52
For Galvanized Fittings, Add	450.68	
For Extra Heavy Weight Fittings, Add	676.02	
23 21 13 23-0798 EA 4" Standard Weight, Flanged Steel, Tee	1,035.58	129.80
For Galvanized Fittings, Add	672.86	
For Extra Heavy Weight Fittings, Add	1,009.28	
23 21 13 23-0799 EA 5" Standard Weight, Flanged Steel, Tee	1,525.20	145.36
For Galvanized Fittings, Add	1,045.88	
For Extra Heavy Weight Fittings, Add	1,568.82	
23 21 13 23-0800 EA 6" Standard Weight, Flanged Steel, Tee	1,859.02	168.71
For Galvanized Fittings, Add	1,284.93	
For Extra Heavy Weight Fittings, Add	1,927.39	
23 21 13 23-0801 EA 8" Standard Weight, Flanged Steel, Tee	2,060.75	195.42
For Galvanized Fittings, Add	1,414.15	
For Extra Heavy Weight Fittings, Add	2,121.23	
23 21 13 23-0802 Flanged Steel, Reducing Tees <small>(23 21 13 23-0770)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0803 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee	966.11	97.78
For Galvanized Fittings, Add	655.66	
For Extra Heavy Weight Fittings, Add	983.50	
23 21 13 23-0804 EA 3" Standard Weight, Flanged Steel, Reducing Tee	1,114.69	108.15
For Galvanized Fittings, Add	762.07	
For Extra Heavy Weight Fittings, Add	1,143.11	
23 21 13 23-0805 EA 4" Standard Weight, Flanged Steel, Reducing Tee	1,900.75	123.71
For Galvanized Fittings, Add	1,372.26	
For Extra Heavy Weight Fittings, Add	2,058.38	
23 21 13 23-0806 EA 5" Standard Weight, Flanged Steel, Reducing Tee	2,056.33	140.18
For Galvanized Fittings, Add	1,477.01	
For Extra Heavy Weight Fittings, Add	2,215.51	
23 21 13 23-0807 EA 6" Standard Weight, Flanged Steel, Reducing Tee	2,580.66	160.93
For Galvanized Fittings, Add	1,871.58	
For Extra Heavy Weight Fittings, Add	2,807.36	
23 21 13 23-0808 EA 8" Standard Weight, Flanged Steel, Reducing Tee	3,216.79	180.77
For Galvanized Fittings, Add	2,356.62	
For Extra Heavy Weight Fittings, Add	3,534.94	
23 21 13 23-0809 Flanged Steel, Concentric Reducers (23 21 13 23-0770)		
23 21 13 23-0810 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer	908.30	70.94
For Galvanized Fittings, Add	641.58	
For Extra Heavy Weight Fittings, Add	962.36	
23 21 13 23-0811 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer	1,032.11	80.39
For Galvanized Fittings, Add	729.21	
For Extra Heavy Weight Fittings, Add	1,093.81	
23 21 13 23-0812 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer	1,524.29	91.68
For Galvanized Fittings, Add	1,109.46	
For Extra Heavy Weight Fittings, Add	1,664.20	
23 21 13 23-0813 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer	1,680.70	99.46
For Galvanized Fittings, Add	1,225.26	
For Extra Heavy Weight Fittings, Add	1,837.88	
23 21 13 23-0814 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer	1,969.38	118.52
For Galvanized Fittings, Add	1,433.38	
For Extra Heavy Weight Fittings, Add	2,150.06	
23 21 13 23-0815 Flanged Steel, Eccentric Reducers (23 21 13 23-0770)		
23 21 13 23-0816 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer	982.82	80.39
For Galvanized Fittings, Add	689.78	
For Extra Heavy Weight Fittings, Add	1,034.66	
23 21 13 23-0817 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer	1,331.42	91.68
For Galvanized Fittings, Add	955.17	
For Extra Heavy Weight Fittings, Add	1,432.75	
23 21 13 23-0818 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0819 Plain End Piping System Couplings (23 21 13 23-0818)		
23 21 13 23-0820 Plainlock Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0821 EA 1" Plainlock Plain End Piping System Coupling	180.30	7.78
For Galvanized Fittings, Add	33.72	
23 21 13 23-0822 EA 1-1/2" Plainlock Plain End Piping System Coupling	184.83	10.76
For Galvanized Fittings, Add	33.72	
23 21 13 23-0823 EA 2" Plainlock Plain End Piping System Coupling	190.09	14.27
For Galvanized Fittings, Add	33.72	
23 21 13 23-0824 EA 2-1/2" Plainlock Plain End Piping System Coupling	194.57	17.24
For Galvanized Fittings, Add	33.72	
23 21 13 23-0825 EA 3" Plainlock Plain End Piping System Coupling	230.13	20.74
For Galvanized Fittings, Add	39.80	
23 21 13 23-0826 EA 4" Plainlock Plain End Piping System Coupling	317.23	27.62
For Galvanized Fittings, Add	55.15	
23 21 13 23-0827 EA 6" Plainlock Plain End Piping System Coupling	533.02	45.00
For Galvanized Fittings, Add	93.12	
23 21 13 23-0828 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0829 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling	217.58	10.76
For Galvanized Fittings, Add	50.34	
23 21 13 23-0830 EA 2" Roust-A-Bout Plain End Piping System Coupling	222.84	14.27
For Galvanized Fittings, Add	50.34	
23 21 13 23-0831 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling	227.33	17.37
For Galvanized Fittings, Add	50.34	
23 21 13 23-0832 EA 3" Roust-A-Bout Plain End Piping System Coupling	329.41	20.74
For Galvanized Fittings, Add	74.58	
23 21 13 23-0833 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling	381.55	24.25
For Galvanized Fittings, Add	86.30	
23 21 13 23-0834 EA 4" Roust-A-Bout Plain End Piping System Coupling	386.69	27.62
For Galvanized Fittings, Add	86.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0835 EA 5" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	545.09 123.30	34.62
23 21 13 23-0836 EA 6" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	669.80 150.59	45.00
23 21 13 23-0837 EA 8" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,148.55 267.02	53.68
23 21 13 23-0838 EA 10" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,484.90 347.39	63.54
23 21 13 23-0839 EA 12" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,856.43 435.90	75.21
23 21 13 23-0840 EA 14" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	2,600.62 618.98	83.12
23 21 13 23-0841 EA 16" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	3,531.54 847.65	94.02
23 21 13 23-0842 Plain End Piping System Fittings (23 21 13 23-0818) Note: Cast ductile iron bodies.		
23 21 13 23-0843 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0844 EA 1" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0845 EA 1-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0846 EA 2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0847 EA 2-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0848 EA 3" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0849 EA 4" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0850 EA 5" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0851 EA 6" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	902.51 153.49	90.12
23 21 13 23-0852 EA 8" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,781.36 324.17	106.98
23 21 13 23-0853 EA 10" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,224.58 407.44	125.00
23 21 13 23-0854 EA 12" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,818.94 518.76	150.16
23 21 13 23-0855 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0856 EA 1" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0857 EA 1-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0858 EA 2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0859 EA 2-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0860 EA 3" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0861 EA 4" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0862 EA 5" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0863 EA 6" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	905.46 154.08	90.12
23 21 13 23-0864 EA 8" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,051.10 178.12	106.98
23 21 13 23-0865 EA 10" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,430.30 248.58	125.00
23 21 13 23-0866 EA 12" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,830.81 321.13	150.16
23 21 13 23-0867 Plain End Piping System, Tees (23 21 13 23-0842)		
23 21 13 23-0868 EA 1" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	246.45 42.87	21.40
23 21 13 23-0869 EA 1-1/2" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	262.53 42.87	32.16
23 21 13 23-0870 EA 2" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	276.71 42.87	41.63
23 21 13 23-0871 EA 2-1/2" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	290.82 42.87	50.97
23 21 13 23-0872 EA 3" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	402.45 61.70	62.64
23 21 13 23-0873 EA 4" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	550.43 85.80	81.05
23 21 13 23-0874 EA 5" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	1,101.32 188.48	105.95

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0875	EA	6" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,361.99 232.62	132.66
23 21	13 23-0876	EA	8" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,853.51 322.31	161.32
23 21	13 23-0877	EA	10" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	2,742.94 492.21	188.03
23 21	13 23-0878	EA	12" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	3,666.91 665.84	225.25
23 21 13 23-0879 Plain End Piping System, Reducing Tees (23 21 13 23-0842)					
23 21	13 23-0880	EA	1-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	475.37 84.74	34.50
23 21	13 23-0881	EA	2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	486.04 84.74	41.63
23 21	13 23-0882	EA	2-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	500.15 84.74	50.97
23 21	13 23-0883	EA	3" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	517.66 84.74	62.64
23 21	13 23-0884	EA	4" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	746.93 125.10	81.05
23 21	13 23-0885	EA	6" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,261.08 212.44	132.66
23 21	13 23-0886	EA	8" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,640.78 279.77	161.32
23 21	13 23-0887	EA	10" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	2,438.45 431.31	188.03
23 21	13 23-0888	EA	12" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	3,579.78 648.42	225.25
23 21 13 23-0889 Plain End Piping System, Wyes (23 21 13 23-0842)					
23 21	13 23-0890	EA	2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	690.22 125.57	41.63
23 21	13 23-0891	EA	2-1/2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	704.33 125.57	50.97
23 21	13 23-0892	EA	3" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	799.73 141.15	62.64
23 21	13 23-0893	EA	4" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,169.00 209.52	81.05
23 21	13 23-0894	EA	5" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,433.69 254.95	105.95
23 21	13 23-0895	EA	6" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,954.30 351.08	132.66
23 21	13 23-0896	EA	8" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	2,515.32 454.68	161.32
23 21	13 23-0897	EA	10" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	3,634.29 670.48	188.03
23 21	13 23-0898	EA	12" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	5,505.67 1,033.60	225.25
23 21 13 23-0899 Plain End Piping System, Laterals (23 21 13 23-0842)					
23 21	13 23-0900	EA	2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	734.63 134.46	41.63
23 21	13 23-0901	EA	2-1/2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	748.74 134.46	50.97
23 21	13 23-0902	EA	3" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	843.84 149.97	62.64
23 21	13 23-0903	EA	4" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,253.24 226.36	81.05
23 21	13 23-0904	EA	5" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,634.33 295.08	105.95
23 21	13 23-0905	EA	6" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	2,083.39 376.90	132.66
23 21	13 23-0906	EA	8" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	2,989.46 549.50	161.32
23 21	13 23-0907	EA	10" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	4,160.37 775.69	188.03
23 21	13 23-0908	EA	12" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	5,583.86 1,049.23	225.25
23 21 13 23-0909 Plain End Piping System, Crosses (23 21 13 23-0842)					
23 21	13 23-0910	EA	2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	823.38 91.25	62.38
23 21	13 23-0911	EA	2-1/2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	844.51 91.25	76.38
23 21	13 23-0912	EA	3" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	987.60 105.83	94.02
23 21	13 23-0913	EA	4" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,345.23 145.39	121.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0914 EA 5" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,890.37 206.50	158.99
23 21 13 23-0915 EA 6" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	2,478.74 272.67	198.40
23 21 13 23-0916 EA 8" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	3,158.63 349.80	240.29
23 21 13 23-0917 EA 10" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	4,504.10 510.39	280.88
23 21 13 23-0918 EA 12" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	6,394.02 735.93	337.93
23 21 13 23-0919 Plain End Piping System, Adapter Nipples <small>(23 21 13 23-0842)</small> Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0920 EA 1" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	37.30 6.41	7.78
23 21 13 23-0921 EA 1-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	42.54 6.58	10.76
23 21 13 23-0922 EA 2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	47.66 6.58	14.27
23 21 13 23-0923 EA 2-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	56.79 7.71	17.24
23 21 13 23-0924 EA 3" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	69.24 9.53	20.74
23 21 13 23-0925 EA 4" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	105.25 15.94	27.62
23 21 13 23-0926 EA 6" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	224.28 43.10	34.62
23 21 13 23-0927 Plain End Piping System, Reducing (Swaged) Nipples <small>(23 21 13 23-0842)</small>		
23 21 13 23-0928 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	114.01 21.53	18.54
23 21 13 23-0929 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	119.21 21.53	22.04
23 21 13 23-0930 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	124.45 21.53	25.54
23 21 13 23-0931 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	123.18 21.53	24.77
23 21 13 23-0932 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	128.28 21.53	28.14
23 21 13 23-0933 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	133.45 21.53	31.51
23 21 13 23-0934 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	147.62 26.23	28.53
23 21 13 23-0935 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	152.22 26.23	31.51
23 21 13 23-0936 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	133.23 20.17	35.01
23 21 13 23-0937 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	143.27 20.17	41.75
23 21 13 23-0938 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	163.87 24.12	45.00
23 21 13 23-0939 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	200.66 36.88	35.40
23 21 13 23-0940 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	205.20 36.88	38.51
23 21 13 23-0941 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	174.65 27.93	42.01
23 21 13 23-0942 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	179.10 27.93	45.00
23 21 13 23-0943 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	184.39 27.93	48.50
23 21 13 23-0944 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	189.45 27.93	51.87
23 21 13 23-0945 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	484.11 102.69	48.88
23 21 13 23-0946 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	399.96 79.26	55.24
23 21 13 23-0947 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	354.32 65.23	62.38
23 21 13 23-0948 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	861.75 195.67	52.78
23 21 13 23-0949 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	866.23 195.67	55.76
23 21 13 23-0950 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	667.71 144.73	59.26
23 21 13 23-0951 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	672.32 144.73	62.38
23 21 13 23-0952 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	473.70 93.79	65.75
23 21 13 23-0953 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	478.41 93.79	68.85

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0954	EA	6" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	393.31	72.62
			<i>For Galvanized Fittings, Add</i>	71.13	
23 21	13 23-0955	EA	6" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	445.42	79.49
			<i>For Galvanized Fittings, Add</i>	81.56	
23 21	13 23-0956	EA	8" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	563.86	74.31
			<i>For Galvanized Fittings, Add</i>	113.12	
23 21	13 23-0957	EA	8" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	574.33	81.31
			<i>For Galvanized Fittings, Add</i>	113.12	
23 21	13 23-0958	EA	8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	647.06	88.31
			<i>For Galvanized Fittings, Add</i>	128.68	
23 21	13 23-0959	EA	8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....	725.00	98.68
			<i>For Galvanized Fittings, Add</i>	144.24	
23 21	13 23-0960		Plain End Piping System, Bull Plugs <small>(23 21 13 23-0842)</small>		
23 21	13 23-0961	EA	1" Plain End Piping System, Bull Plug.....	357.77	7.78
			<i>For Galvanized Fittings, Add</i>	103.83	
23 21	13 23-0962	EA	1-1/2" Plain End Piping System, Bull Plug.....	362.31	10.76
			<i>For Galvanized Fittings, Add</i>	103.83	
23 21	13 23-0963	EA	2" Plain End Piping System, Bull Plug.....	367.43	14.27
			<i>For Galvanized Fittings, Add</i>	103.83	
23 21	13 23-0964	EA	2-1/2" Plain End Piping System, Bull Plug.....	372.03	17.24
			<i>For Galvanized Fittings, Add</i>	103.83	
23 21	13 23-0965	EA	3" Plain End Piping System, Bull Plug.....	538.46	20.74
			<i>For Galvanized Fittings, Add</i>	152.20	
23 21	13 23-0966	EA	4" Plain End Piping System, Bull Plug.....	696.80	27.62
			<i>For Galvanized Fittings, Add</i>	196.59	
23 21	13 23-0967	EA	5" Plain End Piping System, Bull Plug.....	1,209.94	34.62
			<i>For Galvanized Fittings, Add</i>	347.42	
23 21	13 23-0968	EA	6" Plain End Piping System, Bull Plug.....	1,612.02	45.00
			<i>For Galvanized Fittings, Add</i>	463.38	
23 21	13 23-0969	EA	8" Plain End Piping System, Bull Plug.....	2,984.28	53.55
			<i>For Galvanized Fittings, Add</i>	871.17	
23 21	13 23-0970	EA	10" Plain End Piping System, Bull Plug.....	5,365.52	62.64
			<i>For Galvanized Fittings, Add</i>	1,581.47	
23 21	13 23-0971	EA	12" Plain End Piping System, Bull Plug.....	8,219.49	75.21
			<i>For Galvanized Fittings, Add</i>	2,432.01	
23 21	13 23-0972		Carbon Steel Piping Systems <small>(23 21 13 23)</small>		
23 21	13 23-0973		Class 3,000 LB Carbon Steel Socket Weld Fittings <small>(23 21 13 23-0972)</small>		
			Note: ASTM A105		
23 21	13 23-0974		90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21	13 23-0975	EA	1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	45.55	25.67
23 21	13 23-0976	EA	3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	51.15	28.66
23 21	13 23-0977	EA	1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.05	32.03
23 21	13 23-0978	EA	1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	82.37	36.31
23 21	13 23-0979	EA	1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	93.89	40.85
23 21	13 23-0980	EA	2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.73	52.00
23 21	13 23-0981	EA	2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	236.68	76.89
23 21	13 23-0982	EA	3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	332.89	101.15
23 21	13 23-0983	EA	4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	534.30	99.72
23 21	13 23-0984		45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21	13 23-0985	EA	1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	48.69	25.67
23 21	13 23-0986	EA	3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	55.91	28.66
23 21	13 23-0987	EA	1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	64.51	32.03
23 21	13 23-0988	EA	1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	84.22	36.31
23 21	13 23-0989	EA	1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	98.32	40.85
23 21	13 23-0990	EA	2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.64	52.00
23 21	13 23-0991	EA	2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	263.80	76.89
23 21	13 23-0992	EA	3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	355.84	101.15
23 21	13 23-0993	EA	4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	524.37	99.72
23 21	13 23-0994		Straight Tees, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21	13 23-0995	EA	1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	56.13	32.03
23 21	13 23-0996	EA	3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	67.11	36.96
23 21	13 23-0997	EA	1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	86.18	43.70
23 21	13 23-0998	EA	1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	111.62	52.00
23 21	13 23-0999	EA	1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	134.80	61.98
23 21	13 23-1000	EA	2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	175.99	76.89
23 21	13 23-1001	EA	2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	297.87	101.15
23 21	13 23-1002	EA	3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	399.64	120.08
23 21	13 23-1003	EA	4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	704.55	125.89
23 21	13 23-1004		Reducing Tees, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21	13 23-1005	EA	1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	56.99	32.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1006 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	68.00	36.96
23 21 13 23-1007 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	87.25	43.70
23 21 13 23-1008 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	114.14	52.00
23 21 13 23-1009 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	137.76	61.98
23 21 13 23-1010 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	180.53	76.89
23 21 13 23-1011 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	308.65	101.15
23 21 13 23-1012 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	415.16	120.08
23 21 13 23-1013 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	649.30	125.89
23 21 13 23-1014 Straight Couplings, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1015 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	41.68	25.67
23 21 13 23-1016 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	46.87	28.66
23 21 13 23-1017 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	53.94	32.03
23 21 13 23-1018 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	61.82	36.31
23 21 13 23-1019 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	71.34	40.85
23 21 13 23-1020 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	92.53	52.00
23 21 13 23-1021 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	152.11	76.89
23 21 13 23-1022 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	202.47	101.15
23 21 13 23-1023 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	250.81	99.72
23 21 13 23-1024 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1025 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	43.43	25.67
23 21 13 23-1026 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	48.79	28.66
23 21 13 23-1027 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	57.02	32.03
23 21 13 23-1028 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	65.54	36.31
23 21 13 23-1029 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	76.85	40.85
23 21 13 23-1030 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	98.43	52.00
23 21 13 23-1031 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	165.09	76.89
23 21 13 23-1032 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	228.58	101.15
23 21 13 23-1033 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	305.08	99.72
23 21 13 23-1034 Caps, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1035 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	23.16	12.06
23 21 13 23-1036 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	25.96	12.84
23 21 13 23-1037 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	30.32	14.78
23 21 13 23-1038 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	34.66	16.08
23 21 13 23-1039 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	38.56	16.08
23 21 13 23-1040 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	49.98	20.61
23 21 13 23-1041 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	83.14	25.67
23 21 13 23-1042 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	116.94	31.00
23 21 13 23-1043 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	161.09	34.12
23 21 13 23-1044 Black Cast Iron Square Head Plug <small>(23 21 13 23-0973)</small>		
23 21 13 23-1045 EA 1/2" Square Head Plug, Black, Cast Iron.....	16.43	10.24
23 21 13 23-1046 EA 3/4" Square Head Plug, Black, Cast Iron.....	18.10	10.24
23 21 13 23-1047 EA 1" Square Head Plug, Black, Cast Iron.....	26.34	15.56
23 21 13 23-1048 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	26.67	15.56
23 21 13 23-1049 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	28.06	15.56
23 21 13 23-1050 EA 2" Square Head Plug, Black, Cast Iron.....	37.24	20.61
23 21 13 23-1051 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	47.48	25.67
23 21 13 23-1052 EA 3" Square Head Plug, Black, Cast Iron.....	61.03	31.00
23 21 13 23-1053 EA 4" Square Head Plug, Black, Cast Iron.....	68.30	34.12
23 21 13 23-1054 Unions, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1055 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	66.27	32.03
23 21 13 23-1056 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	74.13	36.96
23 21 13 23-1057 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	92.86	43.70
23 21 13 23-1058 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	115.65	52.00
23 21 13 23-1059 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	139.05	61.98
23 21 13 23-1060 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	173.51	76.89
23 21 13 23-1061 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	274.44	83.51
23 21 13 23-1062 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	363.07	101.15
23 21 13 23-1063 Class 6,000 LB Carbon Steel Socket Weld Fittings <small>(23 21 13 23-0972)</small>		
Note: ASTM A105		
23 21 13 23-1064 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1065 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	49.33	25.67
23 21 13 23-1066 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	55.48	28.66
23 21 13 23-1067 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	71.03	32.03
23 21 13 23-1068 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	97.24	36.31
23 21 13 23-1069 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	111.20	40.85
23 21 13 23-1070 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	151.15	52.00
23 21 13 23-1071 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	301.16	76.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1072	EA	3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	429.14	101.15
23 21	13 23-1073	EA	4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	738.70	99.72
23 21	13 23-1074		45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1075	EA	1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	54.50	25.67
23 21	13 23-1076	EA	3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	63.21	28.66
23 21	13 23-1077	EA	1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	73.84	32.03
23 21	13 23-1078	EA	1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	101.12	36.31
23 21	13 23-1079	EA	1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	119.28	40.85
23 21	13 23-1080	EA	2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	152.68	52.00
23 21	13 23-1081	EA	2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	347.90	76.89
23 21	13 23-1082	EA	3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	471.45	101.15
23 21	13 23-1083	EA	4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	736.66	99.72
23 21	13 23-1084		Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1085	EA	1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	63.63	32.03
23 21	13 23-1086	EA	3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	77.94	36.96
23 21	13 23-1087	EA	1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	105.35	43.70
23 21	13 23-1088	EA	1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	142.87	52.00
23 21	13 23-1089	EA	1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	173.55	61.98
23 21	13 23-1090	EA	2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	232.25	76.89
23 21	13 23-1091	EA	2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	433.29	101.15
23 21	13 23-1092	EA	3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	602.98	120.08
23 21	13 23-1093	EA	4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,182.27	125.89
23 21	13 23-1094		Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1095	EA	1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	56.99	32.03
23 21	13 23-1096	EA	3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	68.00	36.96
23 21	13 23-1097	EA	1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	87.25	43.70
23 21	13 23-1098	EA	1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	114.14	52.00
23 21	13 23-1099	EA	1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	137.76	61.98
23 21	13 23-1100	EA	2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	180.53	76.89
23 21	13 23-1101	EA	2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	308.65	101.15
23 21	13 23-1102	EA	3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	415.16	120.08
23 21	13 23-1103	EA	4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	649.30	125.89
23 21	13 23-1104		Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1105	EA	1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	43.25	25.67
23 21	13 23-1106	EA	3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	48.73	28.66
23 21	13 23-1107	EA	1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	56.80	32.03
23 21	13 23-1108	EA	1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	65.43	36.31
23 21	13 23-1109	EA	1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	76.18	40.85
23 21	13 23-1110	EA	2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	99.62	52.00
23 21	13 23-1111	EA	2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	169.93	76.89
23 21	13 23-1112	EA	3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	227.05	101.15
23 21	13 23-1113	EA	4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	299.84	99.72
23 21	13 23-1114		Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1115	EA	1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	45.83	25.67
23 21	13 23-1116	EA	3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	51.56	28.66
23 21	13 23-1117	EA	1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	61.33	32.03
23 21	13 23-1118	EA	1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	70.90	36.31
23 21	13 23-1119	EA	1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	84.31	40.85
23 21	13 23-1120	EA	2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	108.29	52.00
23 21	13 23-1121	EA	2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	189.00	76.89
23 21	13 23-1122	EA	3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	265.51	101.15
23 21	13 23-1123	EA	4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	379.79	99.72
23 21	13 23-1124		Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21	13 23-1125	EA	1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	26.61	12.06
23 21	13 23-1126	EA	3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	30.49	12.84
23 21	13 23-1127	EA	1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	35.80	14.78
23 21	13 23-1128	EA	1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	41.80	16.08
23 21	13 23-1129	EA	1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	48.33	16.08
23 21	13 23-1130	EA	2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	62.72	20.61
23 21	13 23-1131	EA	2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	113.16	25.67
23 21	13 23-1132	EA	3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	164.22	31.00
23 21	13 23-1133	EA	4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	234.81	34.12
23 21	13 23-1134		Black Cast Iron Square Head Plug (23 21 13 23-1063)		
23 21	13 23-1135	EA	1/2" Square Head Plug, Black Cast Iron.....	16.43	10.24
23 21	13 23-1136	EA	3/4" Square Head Plug, Black Cast Iron.....	18.11	10.24
23 21	13 23-1137	EA	1" Square Head Plug, Black Cast Iron.....	26.36	15.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1138 EA 1-1/4" Square Head Plug, Black Cast Iron.....	26.69	15.56
23 21 13 23-1139 EA 1-1/2" Square Head Plug, Black Cast Iron.....	28.08	15.56
23 21 13 23-1140 EA 2" Square Head Plug, Black Cast Iron.....	37.27	20.61
23 21 13 23-1141 EA 2-1/2" Square Head Plug, Black Cast Iron.....	47.53	25.67
23 21 13 23-1142 EA 3" Square Head Plug, Black Cast Iron.....	61.10	31.00
23 21 13 23-1143 EA 4" Square Head Plug, Black Cast Iron.....	68.39	34.12
23 21 13 23-1144 Unions, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1145 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	77.43	32.03
23 21 13 23-1146 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	85.58	36.96
23 21 13 23-1147 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	109.59	43.70
23 21 13 23-1148 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	138.75	52.00
23 21 13 23-1149 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	167.24	61.98
23 21 13 23-1150 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	209.13	76.89
23 21 13 23-1151 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	365.65	83.51
23 21 13 23-1152 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	492.34	101.15
23 21 13 23-1153 Carbon Steel, Seamless Piping System <small>(23 21 13 23-0972)</small>		
<i>Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.</i>		
23 21 13 23-1154 Schedule 40, Carbon Steel, Seamless Piping <small>(23 21 13 23-1153)</small>		
<i>Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.</i>		
23 21 13 23-1155 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.30	4.80
<i>For Schedule 80, Add</i>	1.12	
23 21 13 23-1156 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.69	5.19
<i>For Schedule 80, Add</i>	1.02	
<i>For Schedule 160, Add</i>	4.25	
23 21 13 23-1157 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	11.84	5.57
<i>For Schedule 80, Add</i>	1.25	
<i>For Schedule 160, Add</i>	5.21	
23 21 13 23-1158 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	12.63	6.10
<i>For Schedule 80, Add</i>	1.29	
<i>For Schedule 160, Add</i>	5.36	
23 21 13 23-1159 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	16.54	7.53
<i>For Schedule 80, Add</i>	1.89	
<i>For Schedule 160, Add</i>	7.89	
23 21 13 23-1160 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	20.58	9.07
<i>For Schedule 80, Add</i>	2.49	
<i>For Schedule 160, Add</i>	10.40	
23 21 13 23-1161 90 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1162 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	34.02	19.71
23 21 13 23-1163 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	40.75	23.08
23 21 13 23-1164 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	45.56	25.81
23 21 13 23-1165 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	51.85	28.78
23 21 13 23-1166 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	77.46	36.83
23 21 13 23-1167 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	98.20	46.81
23 21 13 23-1168 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	35.45	19.71
23 21 13 23-1169 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	41.28	23.08
23 21 13 23-1170 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	47.33	25.81
23 21 13 23-1171 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	55.70	28.78
23 21 13 23-1172 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	86.65	36.83
23 21 13 23-1173 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	108.37	46.81
23 21 13 23-1174 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	46.29	23.08
23 21 13 23-1175 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	53.63	25.81
23 21 13 23-1176 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.32	28.78
23 21 13 23-1177 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	105.26	36.83
23 21 13 23-1178 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	157.73	46.81
23 21 13 23-1179 45 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1180 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	37.14	19.71
23 21 13 23-1181 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	41.90	23.08
23 21 13 23-1182 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	47.05	25.81
23 21 13 23-1183 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	52.98	28.78
23 21 13 23-1184 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	73.78	36.83
23 21 13 23-1185 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	103.87	46.81
23 21 13 23-1186 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	37.37	19.71
23 21 13 23-1187 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	43.21	23.08
23 21 13 23-1188 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	48.56	25.81
23 21 13 23-1189 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	56.91	28.78
23 21 13 23-1190 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	85.23	36.83
23 21 13 23-1191 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	111.54	46.81
23 21 13 23-1192 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	49.75	23.08
23 21 13 23-1193 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	59.87	25.81
23 21 13 23-1194 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	64.66	28.78
23 21 13 23-1195 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	118.54	36.83
23 21 13 23-1196 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	158.60	46.81

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1197 Straight Tees, Screwed Carbon Steel (2321 13 23-1153)					
23 21	13 23-1198	EA	1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	45.23	27.36
23 21	13 23-1199	EA	1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	51.21	28.78
23 21	13 23-1200	EA	3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	60.77	33.33
23 21	13 23-1201	EA	1" Tee, Straight, 2,000 LB, Screwed Carbon Steel	73.84	39.30
23 21	13 23-1202	EA	1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	115.00	55.76
23 21	13 23-1203	EA	2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	142.59	69.25
23 21	13 23-1204	EA	1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	46.45	27.36
23 21	13 23-1205	EA	1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	52.01	28.78
23 21	13 23-1206	EA	3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	63.43	33.33
23 21	13 23-1207	EA	1" Tee, Straight, 3,000 LB, Screwed Carbon Steel	76.12	39.30
23 21	13 23-1208	EA	1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	122.89	55.76
23 21	13 23-1209	EA	2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	155.65	69.25
23 21	13 23-1210	EA	1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	58.01	28.78
23 21	13 23-1211	EA	3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel	69.88	33.33
23 21	13 23-1212	EA	1" Tee, Straight, 6,000 LB, Screwed Carbon Steel	92.08	39.30
23 21	13 23-1213	EA	1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	141.02	55.76
23 21	13 23-1214	EA	2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	213.44	69.25
23 21 13 23-1215 Crosses, Screwed Carbon Steel (2321 13 23-1153)					
23 21	13 23-1216	EA	1/4" Cross, 2,000 LB, Screwed Carbon Steel	65.80	34.62
23 21	13 23-1217	EA	1/2" Cross, 2,000 LB, Screwed Carbon Steel	76.90	38.90
23 21	13 23-1218	EA	3/4" Cross, 2,000 LB, Screwed Carbon Steel	82.46	41.50
23 21	13 23-1219	EA	1" Cross, 2,000 LB, Screwed Carbon Steel	101.46	50.05
23 21	13 23-1220	EA	1-1/2" Cross, 2,000 LB, Screwed Carbon Steel	168.55	70.02
23 21	13 23-1221	EA	2" Cross, 2,000 LB, Screwed Carbon Steel	215.74	86.49
23 21	13 23-1222	EA	1/2" Cross, 3,000 LB, Screwed Carbon Steel	78.41	38.90
23 21	13 23-1223	EA	3/4" Cross, 3,000 LB, Screwed Carbon Steel	91.09	41.50
23 21	13 23-1224	EA	1" Cross, 3,000 LB, Screwed Carbon Steel	109.02	50.05
23 21	13 23-1225	EA	1-1/2" Cross, 3,000 LB, Screwed Carbon Steel	179.44	70.02
23 21	13 23-1226	EA	2" Cross, 3,000 LB, Screwed Carbon Steel	235.63	86.49
23 21	13 23-1227	EA	1/2" Cross, 6,000 LB, Screwed Carbon Steel	106.52	38.90
23 21	13 23-1228	EA	3/4" Cross, 6,000 LB, Screwed Carbon Steel	167.82	41.50
23 21	13 23-1229	EA	1" Cross, 6,000 LB, Screwed Carbon Steel	227.25	50.05
23 21	13 23-1230	EA	1-1/2" Cross, 6,000 LB, Screwed Carbon Steel	355.25	70.02
23 21	13 23-1231	EA	2" Cross, 6,000 LB, Screwed Carbon Steel	393.72	86.49
23 21 13 23-1232 Straight Couplings, Screwed Carbon Steel (2321 13 23-1153)					
23 21	13 23-1233	EA	1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	32.31	19.71
23 21	13 23-1234	EA	1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	37.07	23.08
23 21	13 23-1235	EA	3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	42.14	25.81
23 21	13 23-1236	EA	1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	48.39	28.78
23 21	13 23-1237	EA	1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	68.18	36.83
23 21	13 23-1238	EA	2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	86.55	46.81
23 21	13 23-1239	EA	1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	35.92	19.71
23 21	13 23-1240	EA	1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	39.35	23.08
23 21	13 23-1241	EA	3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	43.89	25.81
23 21	13 23-1242	EA	1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	50.72	28.78
23 21	13 23-1243	EA	1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	71.74	36.83
23 21	13 23-1244	EA	2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	99.57	46.81
23 21 13 23-1245 Reducing Couplings, Screwed Carbon Steel (2321 13 23-1153)					
23 21	13 23-1246	EA	1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	32.81	21.01
23 21	13 23-1247	EA	1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	38.25	23.08
23 21	13 23-1248	EA	3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	43.95	25.81
23 21	13 23-1249	EA	1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	50.89	28.78
23 21	13 23-1250	EA	1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	68.83	36.83
23 21	13 23-1251	EA	2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	90.06	46.81
23 21	13 23-1252	EA	1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	84.40	23.08
23 21	13 23-1253	EA	3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	88.53	25.81
23 21	13 23-1254	EA	1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	102.85	28.78
23 21	13 23-1255	EA	1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	145.69	36.83
23 21	13 23-1256	EA	2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	206.39	46.81
23 21 13 23-1257 Caps, Screwed Carbon Steel (2321 13 23-1153)					
23 21	13 23-1258	EA	1/4" Cap, 3,000 LB, Screwed Carbon Steel	15.39	8.81
23 21	13 23-1259	EA	1/2" Cap, 3,000 LB, Screwed Carbon Steel	17.86	10.24
23 21	13 23-1260	EA	3/4" Cap, 3,000 LB, Screwed Carbon Steel	20.63	11.54
23 21	13 23-1261	EA	1" Cap, 3,000 LB, Screwed Carbon Steel	24.38	12.84
23 21	13 23-1262	EA	1-1/2" Cap, 3,000 LB, Screwed Carbon Steel	32.71	16.34
23 21	13 23-1263	EA	2" Cap, 3,000 LB, Screwed Carbon Steel	43.80	20.88
23 21	13 23-1264	EA	1/4" Cap, 6,000 LB, Screwed Carbon Steel	19.71	8.81
23 21	13 23-1265	EA	1/2" Cap, 6,000 LB, Screwed Carbon Steel	20.63	10.24
23 21	13 23-1266	EA	3/4" Cap, 6,000 LB, Screwed Carbon Steel	25.14	11.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1267 EA 1" Cap, 6,000 LB, Screwed Carbon Steel.....	27.68	12.84
23 21 13 23-1268 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	46.15	16.34
23 21 13 23-1269 EA 2" Cap, 6,000 LB, Screwed Carbon Steel.....	56.89	20.88
23 21 13 23-1270 Nipples, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1271 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel.....	19.76	11.80
23 21 13 23-1272 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel.....	20.16	12.31
23 21 13 23-1273 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel.....	20.05	12.31
23 21 13 23-1274 EA 1" Nipple, 2" Long, Screwed Carbon Steel.....	22.14	13.36
23 21 13 23-1275 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel.....	24.91	14.40
23 21 13 23-1276 EA 2" Nipple, 2" Long, Screwed Carbon Steel.....	30.38	18.54
23 21 13 23-1277 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel.....	20.58	11.80
23 21 13 23-1278 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel.....	20.82	12.31
23 21 13 23-1279 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel.....	20.79	12.31
23 21 13 23-1280 EA 1" Nipple, 4" Long, Screwed Carbon Steel.....	23.14	13.36
23 21 13 23-1281 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel.....	26.69	14.40
23 21 13 23-1282 EA 2" Nipple, 4" Long, Screwed Carbon Steel.....	32.99	18.54
23 21 13 23-1283 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel.....	22.56	11.80
23 21 13 23-1284 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel.....	21.86	12.31
23 21 13 23-1285 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel.....	21.95	12.31
23 21 13 23-1286 EA 1" Nipple, 6" Long, Screwed Carbon Steel.....	24.57	13.36
23 21 13 23-1287 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel.....	29.13	14.40
23 21 13 23-1288 EA 2" Nipple, 6" Long, Screwed Carbon Steel.....	35.14	18.54
23 21 13 23-1289 Unions, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1290 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel.....	41.82	28.66
23 21 13 23-1291 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel.....	44.63	28.78
23 21 13 23-1292 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel.....	51.32	33.33
23 21 13 23-1293 EA 1" Union, 3,000 LB, Screwed Carbon Steel.....	61.06	39.30
23 21 13 23-1294 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel.....	87.23	55.76
23 21 13 23-1295 EA 2" Union, 3,000 LB, Screwed Carbon Steel.....	108.25	69.25
23 21 13 23-1296 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel.....	60.96	28.66
23 21 13 23-1297 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel.....	67.77	28.78
23 21 13 23-1298 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel.....	79.34	33.33
23 21 13 23-1299 EA 1" Union, 6,000 LB, Screwed Carbon Steel.....	95.59	39.30
23 21 13 23-1300 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel.....	157.83	55.76
23 21 13 23-1301 EA 2" Union, 6,000 LB, Screwed Carbon Steel.....	195.15	69.25
23 21 13 23-1302 Weld Neck Flanges, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1303 EA 1/2" Flange, 150 LB, Screwed Carbon Steel.....	90.54	53.55
23 21 13 23-1304 EA 3/4" Flange, 150 LB, Screwed Carbon Steel.....	94.75	56.15
23 21 13 23-1305 EA 1" Flange, 150 LB, Screwed Carbon Steel.....	98.40	58.61
23 21 13 23-1306 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel.....	109.86	66.01
23 21 13 23-1307 EA 2" Flange, 150 LB, Screwed Carbon Steel.....	114.18	68.85
23 21 13 23-1308 EA 1/2" Flange, 300 LB, Screwed Carbon Steel.....	91.18	53.55
<i>For Ring Type Joint, Add</i>	<i>10.82</i>	
<i>For Blind Flange, Deduct</i>	<i>-34.31</i>	
23 21 13 23-1309 EA 3/4" Flange, 300 LB, Screwed Carbon Steel.....	95.44	56.15
<i>For Ring Type Joint, Add</i>	<i>11.19</i>	
<i>For Blind Flange, Deduct</i>	<i>-35.94</i>	
23 21 13 23-1310 EA 1" Flange, 300 LB, Screwed Carbon Steel.....	99.44	58.61
<i>For Ring Type Joint, Add</i>	<i>11.54</i>	
<i>For Blind Flange, Deduct</i>	<i>-37.47</i>	
23 21 13 23-1311 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel.....	112.34	66.01
<i>For Ring Type Joint, Add</i>	<i>13.35</i>	
<i>For Blind Flange, Deduct</i>	<i>-42.27</i>	
23 21 13 23-1312 EA 2" Flange, 300 LB, Screwed Carbon Steel.....	116.66	68.85
<i>For Ring Type Joint, Add</i>	<i>13.35</i>	
<i>For Blind Flange, Deduct</i>	<i>-43.99</i>	
23 21 13 23-1313 EA 1/2" Flange, 600 LB, Screwed Carbon Steel.....	95.44	53.55
<i>For Ring Type Joint, Add</i>	<i>15.08</i>	
<i>For Blind Flange, Deduct</i>	<i>-35.16</i>	
23 21 13 23-1314 EA 3/4" Flange, 600 LB, Screwed Carbon Steel.....	99.33	56.15
<i>For Ring Type Joint, Add</i>	<i>15.08</i>	
<i>For Blind Flange, Deduct</i>	<i>-36.72</i>	
23 21 13 23-1315 EA 1" Flange, 600 LB, Screwed Carbon Steel.....	103.67	58.61
<i>For Ring Type Joint, Add</i>	<i>15.77</i>	
<i>For Blind Flange, Deduct</i>	<i>-38.31</i>	
23 21 13 23-1316 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel.....	117.58	66.01
<i>For Ring Type Joint, Add</i>	<i>18.59</i>	
<i>For Blind Flange, Deduct</i>	<i>-43.31</i>	
23 21 13 23-1317 EA 2" Flange, 600 LB, Screwed Carbon Steel.....	120.61	68.85
<i>For Ring Type Joint, Add</i>	<i>17.30</i>	
<i>For Blind Flange, Deduct</i>	<i>-44.78</i>	
23 21 13 23-1318 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1319 EA 1/4" Square Head Plug, Screwed Carbon Steel.....	6.37	3.63
23 21 13 23-1320 EA 1/2" Square Head Plug, Screwed Carbon Steel.....	7.63	4.28

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1321	EA	3/4" Square Head Plug, Screwed Carbon Steel.....	8.81	4.93
23 21	13 23-1322	EA	1" Square Head Plug, Screwed Carbon Steel.....	12.86	7.26
23 21	13 23-1323	EA	1-1/2" Square Head Plug, Screwed Carbon Steel.....	15.38	7.26
23 21	13 23-1324	EA	2" Square Head Plug, Screwed Carbon Steel.....	21.70	9.47
23 21	13 23-1325		Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21	13 23-1326	EA	1/4" Hex Head Plug, Screwed Carbon Steel.....	6.12	3.63
23 21	13 23-1327	EA	1/2" Hex Head Plug, Screwed Carbon Steel.....	7.40	4.28
23 21	13 23-1328	EA	3/4" Hex Head Plug, Screwed Carbon Steel.....	8.66	4.93
23 21	13 23-1329	EA	1" Hex Head Plug, Screwed Carbon Steel.....	12.73	7.26
23 21	13 23-1330	EA	1-1/2" Hex Head Plug, Screwed Carbon Steel.....	14.82	7.26
23 21	13 23-1331	EA	2" Hex Head Plug, Screwed Carbon Steel.....	22.09	9.47
23 21	13 23-1332		Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21	13 23-1333	EA	1/4" Round Head Plug, Screwed Carbon Steel.....	6.94	3.63
23 21	13 23-1334	EA	1/2" Round Head Plug, Screwed Carbon Steel.....	7.67	4.28
23 21	13 23-1335	EA	3/4" Round Head Plug, Screwed Carbon Steel.....	8.70	4.93
23 21	13 23-1336	EA	1" Round Head Plug, Screwed Carbon Steel.....	12.95	7.26
23 21	13 23-1337	EA	1-1/2" Round Head Plug, Screwed Carbon Steel.....	16.07	7.26
23 21	13 23-1338	EA	2" Round Head Plug, Screwed Carbon Steel.....	21.94	9.47
23 21	13 23-1339		Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1153)		
23 21	13 23-1340	EA	1/4" Hex Bushing, Screwed Carbon Steel.....	6.31	3.63
23 21	13 23-1341	EA	1/2" Hex Bushing, Screwed Carbon Steel.....	7.39	4.28
23 21	13 23-1342	EA	3/4" Hex Bushing, Screwed Carbon Steel.....	8.59	4.93
23 21	13 23-1343	EA	1" Hex Bushing, Screwed Carbon Steel.....	12.91	7.26
23 21	13 23-1344	EA	1-1/2" Hex Bushing, Screwed Carbon Steel.....	14.78	7.26
23 21	13 23-1345	EA	2" Hex Bushing, Screwed Carbon Steel.....	21.51	9.47
23 21	13 23-1346		90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1153)		
23 21	13 23-1347	EA	1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	38.60	19.71
23 21	13 23-1348	EA	1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	44.34	23.08
23 21	13 23-1349	EA	3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.26	25.81
23 21	13 23-1350	EA	1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	59.27	28.78
23 21	13 23-1351	EA	1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	89.54	36.83
23 21	13 23-1352	EA	2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	119.16	46.81
23 21	13 23-1353	EA	1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	57.42	23.08
23 21	13 23-1354	EA	3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	77.85	25.81
23 21	13 23-1355	EA	1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	103.77	28.78
23 21	13 23-1356	EA	1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	211.95	36.83
23 21	13 23-1357		Screwed Carbon Steel Laterals (23 21 13 23-1153)		
23 21	13 23-1358	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	133.30	28.78
23 21	13 23-1359	EA	3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	159.54	33.33
23 21	13 23-1360	EA	1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	194.46	39.30
23 21	13 23-1361	EA	1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	252.87	55.76
23 21	13 23-1362	EA	2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	315.26	69.25
23 21	13 23-1363	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	163.86	28.78
23 21	13 23-1364	EA	3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	204.98	33.33
23 21	13 23-1365	EA	1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	243.04	39.30
23 21	13 23-1366	EA	1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	342.19	55.76
23 21	13 23-1367		Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.					
23 21	13 23-1368		Schedule 10 Black Grooved Pipe (23 21 13 23-1367)		
23 21	13 23-1369	LF	2" Black Schedule 10 Grooved Pipe.....	34.11	16.47
23 21	13 23-1370	LF	2-1/2" Black Schedule 10 Grooved Pipe.....	46.14	22.57
23 21	13 23-1371	LF	3" Black Schedule 10 Grooved Pipe.....	51.72	25.03
23 21	13 23-1372	LF	3-1/2" Black Schedule 10 Grooved Pipe.....	57.11	25.94
23 21	13 23-1373	LF	4" Black Schedule 10 Grooved Pipe.....	60.78	28.14
23 21	13 23-1374	LF	5" Black Schedule 10 Grooved Pipe.....	84.36	34.50
23 21	13 23-1375	LF	6" Black Schedule 10 Grooved Pipe.....	110.04	49.02
23 21	13 23-1376	LF	8" Black Schedule 10 Grooved Pipe.....	147.04	54.98
23 21	13 23-1377	LF	10" Black Schedule 10 Grooved Pipe.....	183.60	66.27
23 21	13 23-1378	LF	12" Black Schedule 10 Grooved Pipe.....	211.44	75.08
23 21	13 23-1379		Schedule 40 Black Grooved Pipe (23 21 13 23-1367)		
23 21	13 23-1380	LF	3/4" Black Schedule 40 Grooved Pipe.....	20.48	9.98
23 21	13 23-1381	LF	1" Black Schedule 40 Grooved Pipe.....	23.13	11.28
23 21	13 23-1382	LF	1-1/4" Black Schedule 40 Grooved Pipe.....	26.14	12.19
23 21	13 23-1383	LF	1-1/2" Black Schedule 40 Grooved Pipe.....	29.73	13.87
23 21	13 23-1384	LF	2" Black Schedule 40 Grooved Pipe.....	37.55	17.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1385 LF 2-1/2" Black Schedule 40 Grooved Pipe.....	52.16	24.12
23 21 13 23-1386 LF 3" Black Schedule 40 Grooved Pipe.....	61.29	27.50
23 21 13 23-1387 LF 4" Black Schedule 40 Grooved Pipe.....	74.31	30.60
23 21 13 23-1388 LF 5" Black Schedule 40 Grooved Pipe.....	100.94	37.21
23 21 13 23-1389 LF 6" Black Schedule 40 Grooved Pipe.....	136.77	53.68
23 21 13 23-1390 LF 8" Black Schedule 40 Grooved Pipe.....	178.72	60.82
23 21 13 23-1391 LF 10" Black Schedule 40 Grooved Pipe.....	243.24	72.62
23 21 13 23-1392 LF 12" Black Schedule 40 Grooved Pipe.....	285.92	83.38
23 21 13 23-1393 LF 14" Black Schedule 40 Grooved Pipe.....	378.11	112.69
23 21 13 23-1394 LF 16" Black Schedule 40 Grooved Pipe.....	439.14	132.53
23 21 13 23-1395 LF 18" Black Schedule 40 Grooved Pipe.....	544.16	160.93
23 21 13 23-1396 LF 20" Black Schedule 40 Grooved Pipe.....	628.09	187.64
23 21 13 23-1397 LF 24" Black Schedule 40 Grooved Pipe.....	815.54	225.25
23 21 13 23-1398 Schedule 80 Black Grooved Pipe (23 21 13 23-1367)		
23 21 13 23-1399 LF 3/4" Black Schedule 80 Grooved Pipe.....	22.43	10.90
23 21 13 23-1400 LF 1" Black Schedule 80 Grooved Pipe.....	24.76	11.54
23 21 13 23-1401 LF 1-1/4" Black Schedule 80 Grooved Pipe.....	28.88	12.84
23 21 13 23-1402 LF 1-1/2" Black Schedule 80 Grooved Pipe.....	32.81	14.40
23 21 13 23-1403 LF 2" Black Schedule 80 Grooved Pipe.....	42.43	18.54
23 21 13 23-1404 LF 2-1/2" Black Schedule 80 Grooved Pipe.....	59.57	25.54
23 21 13 23-1405 LF 3" Black Schedule 80 Grooved Pipe.....	70.57	28.66
23 21 13 23-1406 LF 4" Black Schedule 80 Grooved Pipe.....	87.34	31.25
23 21 13 23-1407 LF 5" Black Schedule 80 Grooved Pipe.....	131.05	39.30
23 21 13 23-1408 LF 6" Black Schedule 80 Grooved Pipe.....	172.03	56.28
23 21 13 23-1409 LF 8" Black Schedule 80 Grooved Pipe.....	251.89	64.32
23 21 13 23-1410 LF 10" Black Schedule 80 Grooved Pipe.....	312.83	77.68
23 21 13 23-1411 LF 12" Black Schedule 80 Grooved Pipe.....	332.85	93.89
23 21 13 23-1412 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1367)		
23 21 13 23-1413 LF 3/4" Galvanized Schedule 40 Grooved Pipe.....	21.07	9.98
23 21 13 23-1414 LF 1" Galvanized Schedule 40 Grooved Pipe.....	24.36	11.28
23 21 13 23-1415 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe.....	27.07	12.19
23 21 13 23-1416 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe.....	30.81	13.87
23 21 13 23-1417 LF 2" Galvanized Schedule 40 Grooved Pipe.....	39.00	17.64
23 21 13 23-1418 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe.....	54.49	24.12
23 21 13 23-1419 LF 3" Galvanized Schedule 40 Grooved Pipe.....	64.41	27.50
23 21 13 23-1420 LF 4" Galvanized Schedule 40 Grooved Pipe.....	78.72	30.60
23 21 13 23-1421 LF 5" Galvanized Schedule 40 Grooved Pipe.....	109.25	37.21
23 21 13 23-1422 LF 6" Galvanized Schedule 40 Grooved Pipe.....	148.12	53.68
23 21 13 23-1423 LF 8" Galvanized Schedule 40 Grooved Pipe.....	194.33	60.82
23 21 13 23-1424 LF 10" Galvanized Schedule 40 Grooved Pipe.....	270.88	72.62
23 21 13 23-1425 LF 12" Galvanized Schedule 40 Grooved Pipe.....	319.40	83.38
23 21 13 23-1426 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1367)		
23 21 13 23-1427 LF 3/4" Galvanized Schedule 80 Grooved Pipe.....	22.68	10.90
23 21 13 23-1428 LF 1" Galvanized Schedule 80 Grooved Pipe.....	28.95	11.54
23 21 13 23-1429 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe.....	29.55	12.84
23 21 13 23-1430 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe.....	38.29	15.30
23 21 13 23-1431 LF 2" Galvanized Schedule 80 Grooved Pipe.....	43.60	18.54
23 21 13 23-1432 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe.....	61.54	25.54
23 21 13 23-1433 LF 3" Galvanized Schedule 80 Grooved Pipe.....	73.55	28.66
23 21 13 23-1434 LF 4" Galvanized Schedule 80 Grooved Pipe.....	91.46	31.25
23 21 13 23-1435 LF 5" Galvanized Schedule 80 Grooved Pipe.....	135.89	39.30
23 21 13 23-1436 LF 6" Galvanized Schedule 80 Grooved Pipe.....	177.39	56.28
23 21 13 23-1437 LF 8" Galvanized Schedule 80 Grooved Pipe.....	260.60	64.32
23 21 13 23-1438 LF 10" Galvanized Schedule 80 Grooved Pipe.....	310.41	77.68
23 21 13 23-1439 LF 12" Galvanized Schedule 80 Grooved Pipe.....	342.70	93.89
23 21 13 23-1440 Painted Grooved-Joint Pipe Fittings (23 21 13 23)		
Note: Couplings are not included with fittings.		
23 21 13 23-1441 Grooved Elbows (23 21 13 23-1440)		
23 21 13 23-1442 90 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 10		
23 21 13 23-1443 EA 3/4", Ductile Iron, Grooved 90 Degree Elbow	107.15	14.14
For Galvanized Fittings, Add	28.37	
23 21 13 23-1444 EA 1", Ductile Iron, Grooved 90 Degree Elbow	107.15	14.14
For Galvanized Fittings, Add	28.37	
23 21 13 23-1445 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow	112.45	17.64
For Galvanized Fittings, Add	28.37	
23 21 13 23-1446 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow	118.06	21.40
For Galvanized Fittings, Add	28.37	
23 21 13 23-1447 EA 2", Ductile Iron, Grooved 90 Degree Elbow	128.34	28.27
For Galvanized Fittings, Add	28.37	
23 21 13 23-1448 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow	137.58	34.50
For Galvanized Fittings, Add	28.37	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1449 EA 3", Ductile Iron, Grooved 90 Degree Elbow	215.29	41.75
For Galvanized Fittings, Add	50.39	
23 21 13 23-1450 EA 4", Ductile Iron, Grooved 90 Degree Elbow	248.93	55.11
For Galvanized Fittings, Add	54.89	
23 21 13 23-1451 EA 5", Ductile Iron, Grooved 90 Degree Elbow	508.12	68.85
For Galvanized Fittings, Add	133.61	
23 21 13 23-1452 EA 6", Ductile Iron, Grooved 90 Degree Elbow	605.61	90.12
For Galvanized Fittings, Add	155.27	
23 21 13 23-1453 EA 8", Ductile Iron, Grooved 90 Degree Elbow	1,151.12	107.25
For Galvanized Fittings, Add	326.80	
23 21 13 23-1454 EA 10", Ductile Iron, Grooved 90 Degree Elbow	1,730.52	125.13
For Galvanized Fittings, Add	509.16	
23 21 13 23-1455 EA 12", Ductile Iron, Grooved 90 Degree Elbow	2,698.17	150.16
For Galvanized Fittings, Add	816.10	
23 21 13 23-1456 EA 14", Steel, Grooved 90 Degree Elbow	5,397.19	169.49
For Galvanized Fittings, Add	1,697.20	
23 21 13 23-1457 EA 16", Steel, Grooved 90 Degree Elbow	7,011.08	187.64
For Galvanized Fittings, Add	2,220.80	
23 21 13 23-1458 EA 18", Steel, Grooved 90 Degree Elbow	8,842.54	205.01
For Galvanized Fittings, Add	2,816.62	
23 21 13 23-1459 EA 20", Steel, Grooved 90 Degree Elbow	11,535.87	213.18
For Galvanized Fittings, Add	3,701.33	
23 21 13 23-1460 EA 24", Steel, Grooved 90 Degree Elbow	16,518.16	252.09
For Galvanized Fittings, Add	5,326.31	
23 21 13 23-1461 45 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 11		
23 21 13 23-1462 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow	107.09	14.14
For Galvanized Fittings, Add	20.62	
23 21 13 23-1463 EA 1", Ductile Iron, Grooved 45 Degree Elbow	107.09	14.14
For Galvanized Fittings, Add	20.62	
23 21 13 23-1464 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow	112.39	17.64
For Galvanized Fittings, Add	20.62	
23 21 13 23-1465 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow	118.00	21.40
For Galvanized Fittings, Add	20.62	
23 21 13 23-1466 EA 2", Ductile Iron, Grooved 45 Degree Elbow	128.28	28.27
For Galvanized Fittings, Add	20.62	
23 21 13 23-1467 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow	137.52	34.50
For Galvanized Fittings, Add	20.62	
23 21 13 23-1468 EA 3", Ductile Iron, Grooved 45 Degree Elbow	215.23	41.75
For Galvanized Fittings, Add	36.64	
23 21 13 23-1469 EA 4", Ductile Iron, Grooved 45 Degree Elbow	248.93	55.11
For Galvanized Fittings, Add	39.92	
23 21 13 23-1470 EA 5", Ductile Iron, Grooved 45 Degree Elbow	508.12	68.85
For Galvanized Fittings, Add	97.17	
23 21 13 23-1471 EA 6", Ductile Iron, Grooved 45 Degree Elbow	605.61	90.12
For Galvanized Fittings, Add	112.93	
23 21 13 23-1472 EA 8", Ductile Iron, Grooved 45 Degree Elbow	1,151.12	107.25
For Galvanized Fittings, Add	237.67	
23 21 13 23-1473 EA 10", Ductile Iron, Grooved 45 Degree Elbow	1,730.52	125.13
For Galvanized Fittings, Add	370.30	
23 21 13 23-1474 EA 12", Ductile Iron, Grooved 45 Degree Elbow	2,698.17	150.16
For Galvanized Fittings, Add	593.53	
23 21 13 23-1475 EA 14", Steel, Grooved 45 Degree Elbow	5,397.19	169.49
For Galvanized Fittings, Add	1,234.32	
23 21 13 23-1476 EA 16", Steel, Grooved 45 Degree Elbow	7,011.08	187.64
For Galvanized Fittings, Add	1,615.13	
23 21 13 23-1477 EA 18", Steel, Grooved 45 Degree Elbow	8,842.54	205.01
For Galvanized Fittings, Add	2,048.45	
23 21 13 23-1478 EA 20", Steel, Grooved 45 Degree Elbow	11,536.44	213.58
For Galvanized Fittings, Add	2,691.88	
23 21 13 23-1479 EA 24", Steel, Grooved 45 Degree Elbow	16,518.16	252.09
For Galvanized Fittings, Add	3,873.68	
23 21 13 23-1480 22-1/2 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 12		
23 21 13 23-1481 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow	112.75	14.14
For Galvanized Fittings, Add	21.97	
23 21 13 23-1482 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow	118.05	17.64
For Galvanized Fittings, Add	21.97	
23 21 13 23-1483 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	123.66	21.40
For Galvanized Fittings, Add	21.97	
23 21 13 23-1484 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow	133.94	28.27
For Galvanized Fittings, Add	21.97	
23 21 13 23-1485 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	143.18	34.50
For Galvanized Fittings, Add	21.97	
23 21 13 23-1486 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow	196.49	41.75
For Galvanized Fittings, Add	32.14	
23 21 13 23-1487 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow	262.16	55.11
For Galvanized Fittings, Add	43.09	
23 21 13 23-1488 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow	660.07	68.85
For Galvanized Fittings, Add	133.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1489 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	643.77 122.09	90.12
23 21 13 23-1490 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,225.15 255.44	107.25
23 21 13 23-1491 EA 10", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,648.82 350.69	125.13
23 21 13 23-1492 EA 12", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,200.56 474.10	150.16
23 21 13 23-1493 EA 14", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,535.83 547.60	169.49
23 21 13 23-1494 EA 16", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	3,017.93 656.77	187.64
23 21 13 23-1495 EA 18", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	3,621.48 795.40	205.01
23 21 13 23-1496 EA 20", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	4,237.93 940.37	213.18
23 21 13 23-1497 EA 24", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	5,643.08 1,263.66	252.09
23 21 13 23-1498 11-1/4 Degree Grooved Elbows (23 21 13 23-1441) Note: Victaulic No. 13		
23 21 13 23-1499 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	112.75 21.97	14.14
23 21 13 23-1500 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	118.05 21.97	17.64
23 21 13 23-1501 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	123.66 21.97	21.40
23 21 13 23-1502 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	133.94 21.97	28.27
23 21 13 23-1503 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	143.18 21.97	34.50
23 21 13 23-1504 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	196.48 32.14	41.75
23 21 13 23-1505 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	262.15 43.09	55.11
23 21 13 23-1506 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	660.05 133.63	68.85
23 21 13 23-1507 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	643.74 122.08	90.12
23 21 13 23-1508 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,225.08 255.42	107.25
23 21 13 23-1509 EA 10", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,648.74 350.67	125.13
23 21 13 23-1510 EA 12", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,200.45 474.07	150.16
23 21 13 23-1511 EA 14", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,535.72 547.57	169.49
23 21 13 23-1512 EA 16", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	3,017.82 656.73	187.77
23 21 13 23-1513 EA 18", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	3,621.27 795.36	205.01
23 21 13 23-1514 EA 20", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	4,237.71 940.32	213.18
23 21 13 23-1515 EA 24", Steel, Grooved 11-1/4 Degree Elbow <i>For Galvanized Fittings, Add</i>	5,642.80 1,263.59	252.09
23 21 13 23-1516 90 Degree Grooved Long Radius Elbows (23 21 13 23-1441) Note: Victaulic No. 100		
23 21 13 23-1517 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	238.90 47.16	28.27
23 21 13 23-1518 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	621.86 136.86	34.50
23 21 13 23-1519 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	259.10 47.16	41.75
23 21 13 23-1520 EA 4", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	376.99 70.65	55.11
23 21 13 23-1521 EA 5", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	1,612.16 362.14	68.85
23 21 13 23-1522 EA 6", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	996.29 206.69	90.12
23 21 13 23-1523 EA 8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	2,226.55 495.78	107.25
23 21 13 23-1524 EA 10", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	4,470.76 1,027.96	125.13
23 21 13 23-1525 EA 12", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	5,332.80 1,225.84	150.16
23 21 13 23-1526 Grooved Tees, Wyes And Crosses (23 21 13 23-1440)		
23 21 13 23-1527 Grooved Tees (23 21 13 23-1526) Note: Victaulic No. 20		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1528	EA	3/4", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	159.23 39.41	18.54
23 21	13 23-1529	EA	1", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	163.45 39.41	21.40
23 21	13 23-1530	EA	1-1/4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	170.59 39.41	26.20
23 21	13 23-1531	EA	1-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	179.51 39.41	32.16
23 21	13 23-1532	EA	2", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	193.67 39.41	41.63
23 21	13 23-1533	EA	2-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	207.83 39.41	50.97
23 21	13 23-1534	EA	3", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	277.86 55.20	62.64
23 21	13 23-1535	EA	4", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	403.71 84.68	81.05
23 21	13 23-1536	EA	5", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	821.04 198.66	105.95
23 21	13 23-1537	EA	6", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	963.98 229.60	132.53
23 21	13 23-1538	EA	8", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	1,913.00 501.54	160.93
23 21	13 23-1539	EA	10", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	3,266.75 895.60	187.64
23 21	13 23-1540	EA	12", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	4,517.16 1,253.84	225.25
23 21	13 23-1541	EA	14", Steel, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	4,934.64 1,367.83	250.28
23 21	13 23-1542	EA	16", Steel, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	6,185.20 1,742.35	251.69
23 21	13 23-1543	EA	18", Steel, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	7,689.59 2,182.01	277.63
23 21	13 23-1544	EA	20", Steel, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	10,844.32 3,126.46	282.05
23 21	13 23-1545	EA	24", Steel, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	16,531.81 4,803.68	346.50
23 21	13 23-1546		Grooved Wyes (90 Degree True Wye) (23 21 13 23-1526) Note: Victaulic No. 33		
23 21	13 23-1547	EA	1", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	586.32 88.68	21.40
23 21	13 23-1548	EA	1-1/4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	593.46 88.68	26.20
23 21	13 23-1549	EA	1-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	602.38 88.68	32.16
23 21	13 23-1550	EA	2", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	616.54 88.68	41.63
23 21	13 23-1551	EA	2-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	630.70 88.68	50.97
23 21	13 23-1552	EA	3", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	756.34 106.00	62.64
23 21	13 23-1553	EA	4", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	989.20 138.84	81.05
23 21	13 23-1554	EA	5", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	1,402.62 199.00	105.95
23 21	13 23-1555	EA	6", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	1,737.56 246.23	132.53
23 21	13 23-1556	EA	8", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	2,457.67 354.63	160.93
23 21	13 23-1557	EA	10", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	4,106.98 612.09	187.64
23 21	13 23-1558	EA	12", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	4,564.06 676.22	225.25
23 21	13 23-1559	EA	14", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	5,201.26 772.17	250.28
23 21	13 23-1560	EA	16", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	6,645.37 1,002.95	251.44
23 21	13 23-1561	EA	18", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	7,587.01 1,147.25	277.89
23 21	13 23-1562	EA	20", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	10,821.52 1,663.90	281.52
23 21	13 23-1563	EA	24", Steel, Grooved Wye..... <i>For Galvanized Fittings, Add</i>	16,687.69 2,586.90	346.50
23 21	13 23-1564		Grooved Crosses (23 21 13 23-1526) Note: Victaulic No. 35		
23 21	13 23-1565	EA	3/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	400.64 53.82	27.88
23 21	13 23-1566	EA	1", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	406.98 53.82	32.16
23 21	13 23-1567	EA	1-1/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	491.92 64.96	39.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1568 EA 1-1/2", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	538.88 70.00	48.24
23 21 13 23-1569 EA 2", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	357.20 39.56	62.38
23 21 13 23-1570 EA 2-1/2", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	378.44 39.56	76.51
23 21 13 23-1571 EA 3", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	614.68 71.08	93.89
23 21 13 23-1572 EA 4", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	971.05 118.33	121.50
23 21 13 23-1573 EA 5", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	1,849.83 241.74	158.86
23 21 13 23-1574 EA 6", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	2,371.41 311.02	198.80
23 21 13 23-1575 EA 8", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	3,092.55 409.61	241.32
23 21 13 23-1576 EA 10", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	5,079.54 698.61	281.52
23 21 13 23-1577 EA 12", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	7,227.58 1,008.15	337.93
23 21 13 23-1578 EA 14", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	7,526.16 1,044.50	375.41
23 21 13 23-1579 EA 16", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	9,675.22 1,366.37	377.61
23 21 13 23-1580 EA 18", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	11,789.95 1,674.85	416.39
23 21 13 23-1581 EA 20", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	16,452.65 2,372.79	422.88
23 21 13 23-1582 EA 24", Steel, Grooved Cross..... <i>For Galvanized Fittings, Add</i>	25,199.72 3,663.06	519.74
 23 21 13 23-1583 Grooved Reducing Tees (23 21 13 23-1526) Note: Victaulic No. 25		
23 21 13 23-1584 EA 1", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	285.55 50.69	21.40
23 21 13 23-1585 EA 1-1/4", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	300.65 52.28	26.20
23 21 13 23-1586 EA 1-1/2", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	316.08 53.58	32.16
23 21 13 23-1587 EA 2", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	375.98 62.73	41.63
23 21 13 23-1588 EA 2-1/2", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	422.42 69.19	50.97
23 21 13 23-1589 EA 3", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	472.50 75.73	62.64
23 21 13 23-1590 EA 4", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	632.12 102.13	81.05
23 21 13 23-1591 EA 5", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	833.13 134.86	105.95
23 21 13 23-1592 EA 6", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	1,147.20 189.71	132.53
23 21 13 23-1593 EA 8", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	1,806.32 313.02	160.93
23 21 13 23-1594 EA 10", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	2,588.71 461.46	187.64
23 21 13 23-1595 EA 12", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	3,741.34 680.73	225.25
23 21 13 23-1596 EA 14", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	4,241.03 773.16	250.28
23 21 13 23-1597 EA 16", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	5,398.99 1,004.32	251.69
23 21 13 23-1598 EA 18", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	6,563.85 1,229.54	277.63
23 21 13 23-1599 EA 20", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	9,214.98 1,758.46	281.92
23 21 13 23-1600 EA 24", Steel, Grooved Reducing Tee..... <i>For Galvanized Fittings, Add</i>	14,682.13 2,832.52	346.50
 23 21 13 23-1601 Grooved 45 Degree Lateral Wyes (23 21 13 23-1526) Note: Victaulic No. 30		
23 21 13 23-1602 EA 3/4", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	552.73 94.47	18.54
23 21 13 23-1603 EA 1", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	556.95 94.47	21.40
23 21 13 23-1604 EA 1-1/4", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	564.09 94.47	26.20
23 21 13 23-1605 EA 1-1/2", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	573.01 94.47	32.16
23 21 13 23-1606 EA 2", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	587.17 94.47	41.63
23 21 13 23-1607 EA 2-1/2", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	601.33 94.47	50.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1608	EA	3", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	547.28 81.62	62.64
23 21	13 23-1609	EA	3-1/2", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	876.42 138.28	72.22
23 21	13 23-1610	EA	4", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	1,015.69 160.96	81.05
23 21	13 23-1611	EA	5", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	1,465.71 235.24	105.95
23 21	13 23-1612	EA	6", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	2,304.25 379.01	132.53
23 21	13 23-1613	EA	8", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	3,274.05 545.91	160.93
23 21	13 23-1614	EA	10", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	4,562.20 770.54	187.64
23 21	13 23-1615	EA	12", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	5,513.36 931.62	225.25
23 21	13 23-1616	EA	14", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	7,929.44 1,359.76	250.28
23 21	13 23-1617	EA	16", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	9,814.65 1,698.71	251.69
23 21	13 23-1618	EA	18", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	10,965.86 1,898.95	277.63
23 21	13 23-1619	EA	20", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	16,424.81 2,880.39	281.92
23 21	13 23-1620	EA	24", Steel, Grooved, 45 Degree Lateral Wye..... <i>For Galvanized Fittings, Add</i>	25,385.67 4,475.90	346.50
23 21	13 23-1621		Grooved 45 Degree Lateral Reducing Wyes <small>(23 21 13 23-1626)</small>		
			Note: Victaulic No. 30R		
23 21	13 23-1622	EA	3", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	547.28 58.95	62.64
23 21	13 23-1623	EA	4", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	1,015.69 116.25	81.05
23 21	13 23-1624	EA	5", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	1,465.71 169.89	105.95
23 21	13 23-1625	EA	6", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	1,887.13 219.50	132.53
23 21	13 23-1626	EA	8", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	2,678.69 316.87	160.93
23 21	13 23-1627	EA	10", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	3,266.63 388.08	187.64
23 21	13 23-1628	EA	12", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	3,965.47 471.61	225.25
23 21	13 23-1629	EA	14", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	4,439.25 528.32	250.28
23 21	13 23-1630	EA	16", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	5,630.52 682.91	251.69
23 21	13 23-1631	EA	18", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	8,482.33 1,048.60	277.63
23 21	13 23-1632	EA	20", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	12,229.45 1,534.88	281.92
23 21	13 23-1633	EA	24", Steel, Grooved 45 Degree Lateral Reducing Wye..... <i>For Galvanized Fittings, Add</i>	19,635.16 2,485.03	346.50
23 21	13 23-1634		Mechanical-T Outlet <small>(23 21 13 23-1626)</small>		
			Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21	13 23-1635	EA	2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet..... <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21	13 23-1636	EA	2" x 1" Mechanical-T Outlet With Threaded Branch Outlet..... <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21	13 23-1637	EA	2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet..... <i>For Galvanized Fittings, Add</i>	194.27 25.03	46.68
23 21	13 23-1638	EA	2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	194.27	46.68
23 21	13 23-1639	EA	2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	192.31	52.52
23 21	13 23-1640	EA	2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	192.31	52.52
23 21	13 23-1641	EA	2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	228.29	52.52
23 21	13 23-1642	EA	3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21	13 23-1643	EA	3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21	13 23-1644	EA	3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21	13 23-1645	EA	3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21	13 23-1646	EA	3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	266.02	58.35
23 21	13 23-1647	EA	4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21	13 23-1648	EA	4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21	13 23-1649	EA	4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	306.37	77.81
23 21	13 23-1650	EA	4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21	13 23-1651	EA	4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21	13 23-1652	EA	4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	319.07	77.81
23 21	13 23-1653	EA	4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	331.24	77.81
23 21	13 23-1654	EA	5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21	13 23-1655	EA	5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21	13 23-1656	EA	5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	417.90	106.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1657 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	431.65	106.98
23 21 13 23-1658 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1659 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1660 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	485.90	136.16
23 21 13 23-1661 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	499.53	136.16
23 21 13 23-1662 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	523.73	136.16
23 21 13 23-1663 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1664 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1665 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	729.35	180.24
23 21 13 23-1666 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	740.85	180.24
23 21 13 23-1667 Installation-Ready™ Grooved Fittings (23 21 13 23-1440)		
23 21 13 23-1668 Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1667)		
Note: Victaulic No. 101		
23 21 13 23-1669 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	218.09	12.84
For Galvanized Fittings, Add	65.55	
For Galvanized Fittings, Add	50.85	
23 21 13 23-1670 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	227.83	15.40
For Galvanized Fittings, Add	67.48	
For Galvanized Fittings, Add	52.35	
23 21 13 23-1671 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	237.07	20.54
For Galvanized Fittings, Add	67.96	
For Galvanized Fittings, Add	52.72	
23 21 13 23-1672 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	287.20	25.67
For Galvanized Fittings, Add	81.94	
For Galvanized Fittings, Add	63.56	
23 21 13 23-1673 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1667)		
Note: Victaulic No. 103		
23 21 13 23-1674 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	218.09	12.84
For Galvanized Fittings, Add	47.67	
For Galvanized Fittings, Add	50.85	
23 21 13 23-1675 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	227.83	15.40
For Galvanized Fittings, Add	49.08	
For Galvanized Fittings, Add	52.35	
23 21 13 23-1676 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	237.07	20.54
For Galvanized Fittings, Add	49.43	
For Galvanized Fittings, Add	52.72	
23 21 13 23-1677 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	287.20	25.67
For Galvanized Fittings, Add	59.59	
For Galvanized Fittings, Add	63.56	
23 21 13 23-1678 Installation-Ready™ Grooved Tees (23 21 13 23-1667)		
Note: Victaulic No. 102		
23 21 13 23-1679 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee	332.67	17.11
For Galvanized Fittings, Add	92.02	
For Galvanized Fittings, Add	78.52	
23 21 13 23-1680 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	348.07	20.54
For Galvanized Fittings, Add	95.09	
For Galvanized Fittings, Add	81.14	
23 21 13 23-1681 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee	362.83	27.38
For Galvanized Fittings, Add	96.40	
For Galvanized Fittings, Add	82.26	
23 21 13 23-1682 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	422.86	34.24
For Galvanized Fittings, Add	111.30	
For Galvanized Fittings, Add	94.97	
23 21 13 23-1683 Grooved Fittings (23 21 13 23-1440)		
23 21 13 23-1684 Flanged Adapter Nipple, Grooved (23 21 13 23-1683)		
Note: Victaulic No. 41 and 45		
23 21 13 23-1685 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	392.71	15.56
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1686 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	395.31	17.24
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1687 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	401.79	21.66
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1688 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	415.44	30.73
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1689 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	425.18	37.21
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1690 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	539.24	44.48
For Galvanized Fittings, Add	85.07	
For 300 LB Rating, Add	70.89	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1691 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	653.44	59.91
For Galvanized Fittings, Add	101.46	
For 300 LB Rating, Add	84.55	
23 21 13 23-1692 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	914.10	72.49
For Galvanized Fittings, Add	144.98	
For 300 LB Rating, Add	120.81	
23 21 13 23-1693 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,065.78	97.91
For Galvanized Fittings, Add	165.41	
For 300 LB Rating, Add	137.84	
23 21 13 23-1694 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,467.11	132.53
For Galvanized Fittings, Add	228.32	
For 300 LB Rating, Add	190.27	
23 21 13 23-1695 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,311.16	160.93
For Galvanized Fittings, Add	372.59	
For 300 LB Rating, Add	310.49	
23 21 13 23-1696 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	3,111.68	187.64
For Galvanized Fittings, Add	509.45	
For 300 LB Rating, Add	424.54	
23 21 13 23-1697 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	3,675.34	225.25
For Galvanized Fittings, Add	600.78	
For 300 LB Rating, Add	500.65	
23 21 13 23-1698 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,515.27	250.28
For Galvanized Fittings, Add	925.21	
For 300 LB Rating, Add	771.01	
23 21 13 23-1699 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	6,600.23	375.41
For Galvanized Fittings, Add	1,086.73	
For 300 LB Rating, Add	905.61	
23 21 13 23-1700 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	6,968.33	450.49
For Galvanized Fittings, Add	1,132.73	
For 300 LB Rating, Add	943.94	
23 21 13 23-1701 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	11,606.53	500.54
For Galvanized Fittings, Add	1,954.10	
For 300 LB Rating, Add	1,628.41	
23 21 13 23-1702 Grooved Concentric Reducers <small>(23 21 13 23-1683)</small>		
Note: Victaulic No. 50		
23 21 13 23-1703 EA 1-1/4" x 3/4", Grooved Concentric Reducer.....	417.31	15.56
For Galvanized Fittings, Add	17.33	
23 21 13 23-1704 EA 1-1/4" x 1", Grooved Concentric Reducer.....	436.37	16.47
For Galvanized Fittings, Add	18.12	
23 21 13 23-1705 EA 1-1/2" x 3/4", Grooved Concentric Reducer.....	491.58	17.77
For Galvanized Fittings, Add	55.89	
23 21 13 23-1706 EA 1-1/2" x 1", Grooved Concentric Reducer.....	127.46	18.54
For Galvanized Fittings, Add	11.97	
23 21 13 23-1707 EA 1-1/2" x 1-1/4", Grooved Concentric Reducer.....	414.60	19.45
For Galvanized Fittings, Add	46.33	
23 21 13 23-1708 EA 2" x 3/4", Grooved Concentric Reducer.....	131.35	21.14
For Galvanized Fittings, Add	11.97	
23 21 13 23-1709 EA 2" x 1", Grooved Concentric Reducer.....	132.65	22.04
For Galvanized Fittings, Add	11.97	
23 21 13 23-1710 EA 2" x 1-1/4", Grooved Concentric Reducer.....	143.95	22.95
For Galvanized Fittings, Add	13.17	
23 21 13 23-1711 EA 2" x 1-1/2", Grooved Concentric Reducer.....	137.91	25.54
For Galvanized Fittings, Add	11.97	
23 21 13 23-1712 EA 2-1/2" x 3/4", Grooved Concentric Reducer.....	846.21	23.86
For Galvanized Fittings, Add	97.41	
23 21 13 23-1713 EA 2-1/2" x 1", Grooved Concentric Reducer.....	672.79	24.77
For Galvanized Fittings, Add	76.42	
23 21 13 23-1714 EA 2-1/2" x 1-1/4", Grooved Concentric Reducer.....	613.83	25.54
For Galvanized Fittings, Add	69.18	
23 21 13 23-1715 EA 2-1/2" x 1-1/2", Grooved Concentric Reducer.....	141.72	28.14
For Galvanized Fittings, Add	11.97	
23 21 13 23-1716 EA 2-1/2" x 2", Grooved Concentric Reducer.....	146.90	31.51
For Galvanized Fittings, Add	11.97	
23 21 13 23-1717 EA 3" x 3/4", Grooved Concentric Reducer.....	857.24	27.75
For Galvanized Fittings, Add	123.98	
23 21 13 23-1718 EA 3" x 1", Grooved Concentric Reducer.....	152.71	28.53
For Galvanized Fittings, Add	16.72	
23 21 13 23-1719 EA 3" x 1-1/4", Grooved Concentric Reducer.....	675.85	29.44
For Galvanized Fittings, Add	96.03	
23 21 13 23-1720 EA 3" x 1-1/2", Grooved Concentric Reducer.....	634.39	31.51
For Galvanized Fittings, Add	89.23	
23 21 13 23-1721 EA 3" x 2", Grooved Concentric Reducer.....	139.86	35.01
For Galvanized Fittings, Add	13.28	
23 21 13 23-1722 EA 3" x 2-1/2", Grooved Concentric Reducer.....	182.94	41.75
For Galvanized Fittings, Add	18.29	
23 21 13 23-1723 EA 3-1/2" x 3", Grooved Concentric Reducer.....	195.68	45.00
For Galvanized Fittings, Add	19.49	
23 21 13 23-1724 EA 4" x 1", Grooved Concentric Reducer.....	185.37	35.40
For Galvanized Fittings, Add	22.67	
23 21 13 23-1725 EA 4" x 1-1/4", Grooved Concentric Reducer.....	1,099.57	36.31
For Galvanized Fittings, Add	179.23	
23 21 13 23-1726 EA 4" x 1-1/2", Grooved Concentric Reducer.....	856.71	38.51
For Galvanized Fittings, Add	137.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1727 EA 4" x 2", Grooved Concentric Reducer	179.18	42.01
For Galvanized Fittings, Add	19.94	
23 21 13 23-1728 EA 4" x 2-1/2", Grooved Concentric Reducer	213.20	45.00
For Galvanized Fittings, Add	25.00	
23 21 13 23-1729 EA 4" x 3", Grooved Concentric Reducer	218.38	48.50
For Galvanized Fittings, Add	25.00	
23 21 13 23-1730 EA 4" x 3-1/2", Grooved Concentric Reducer	223.57	51.87
For Galvanized Fittings, Add	25.00	
23 21 13 23-1731 EA 5" x 2", Grooved Concentric Reducer	1,544.06	48.88
For Galvanized Fittings, Add	252.24	
23 21 13 23-1732 EA 5" x 2-1/2", Grooved Concentric Reducer	1,218.95	51.87
For Galvanized Fittings, Add	195.70	
23 21 13 23-1733 EA 5" x 3", Grooved Concentric Reducer	253.61	55.37
For Galvanized Fittings, Add	29.26	
23 21 13 23-1734 EA 5" x 4", Grooved Concentric Reducer	297.13	62.24
For Galvanized Fittings, Add	34.94	
23 21 13 23-1735 EA 6" x 1", Grooved Concentric Reducer	350.09	52.78
For Galvanized Fittings, Add	50.56	
23 21 13 23-1736 EA 6" x 1-1/2", Grooved Concentric Reducer	1,630.05	55.76
For Galvanized Fittings, Add	288.56	
23 21 13 23-1737 EA 6" x 2", Grooved Concentric Reducer	359.79	59.26
For Galvanized Fittings, Add	50.56	
23 21 13 23-1738 EA 6" x 2-1/2", Grooved Concentric Reducer	1,648.60	62.24
For Galvanized Fittings, Add	290.21	
23 21 13 23-1739 EA 6" x 3", Grooved Concentric Reducer	369.54	65.75
For Galvanized Fittings, Add	50.56	
23 21 13 23-1740 EA 6" x 4", Grooved Concentric Reducer	344.93	72.62
For Galvanized Fittings, Add	44.04	
23 21 13 23-1741 EA 6" x 5", Grooved Concentric Reducer	468.43	79.62
For Galvanized Fittings, Add	65.14	
23 21 13 23-1742 EA 8" x 3", Grooved Concentric Reducer	595.73	74.44
For Galvanized Fittings, Add	90.35	
23 21 13 23-1743 EA 8" x 4", Grooved Concentric Reducer	606.08	81.31
For Galvanized Fittings, Add	90.35	
23 21 13 23-1744 EA 8" x 5", Grooved Concentric Reducer	616.48	88.18
For Galvanized Fittings, Add	90.35	
23 21 13 23-1745 EA 8" x 6", Grooved Concentric Reducer	765.29	98.55
For Galvanized Fittings, Add	115.22	
23 21 13 23-1746 EA 10" x 4", Grooved Concentric Reducer	1,288.37	90.38
For Galvanized Fittings, Add	215.12	
23 21 13 23-1747 EA 10" x 5", Grooved Concentric Reducer	2,687.17	97.26
For Galvanized Fittings, Add	474.20	
23 21 13 23-1748 EA 10" x 6", Grooved Concentric Reducer	1,422.15	107.63
For Galvanized Fittings, Add	235.25	
23 21 13 23-1749 EA 10" x 8", Grooved Concentric Reducer	1,435.09	116.32
For Galvanized Fittings, Add	235.25	
23 21 13 23-1750 EA 12" x 4", Grooved Concentric Reducer	3,970.61	102.96
For Galvanized Fittings, Add	572.45	
23 21 13 23-1751 EA 12" x 6", Grooved Concentric Reducer	1,683.86	120.21
For Galvanized Fittings, Add	225.55	
23 21 13 23-1752 EA 12" x 8", Grooved Concentric Reducer	2,451.92	128.90
For Galvanized Fittings, Add	338.81	
23 21 13 23-1753 EA 12" x 10", Grooved Concentric Reducer	2,465.61	137.97
For Galvanized Fittings, Add	338.81	
23 21 13 23-1754 EA 14" x 6", Grooved Concentric Reducer	7,858.04	129.55
For Galvanized Fittings, Add	235.28	
23 21 13 23-1755 EA 14" x 8", Grooved Concentric Reducer	4,705.64	138.23
For Galvanized Fittings, Add	138.10	
23 21 13 23-1756 EA 14" x 10", Grooved Concentric Reducer	4,019.00	147.31
For Galvanized Fittings, Add	116.60	
23 21 13 23-1757 EA 14" x 12", Grooved Concentric Reducer	4,037.76	159.76
For Galvanized Fittings, Add	116.60	
23 21 13 23-1758 EA 16" x 8", Grooved Concentric Reducer	7,151.98	147.44
For Galvanized Fittings, Add	212.78	
23 21 13 23-1759 EA 16" x 10", Grooved Concentric Reducer	6,642.71	156.52
For Galvanized Fittings, Add	196.72	
23 21 13 23-1760 EA 16" x 12", Grooved Concentric Reducer	6,148.94	169.10
For Galvanized Fittings, Add	180.99	
23 21 13 23-1761 EA 16" x 14", Grooved Concentric Reducer	6,162.95	178.43
For Galvanized Fittings, Add	180.99	
23 21 13 23-1762 EA 18" x 10", Grooved Concentric Reducer	9,296.20	165.20
For Galvanized Fittings, Add	277.79	
23 21 13 23-1763 EA 18" x 12", Grooved Concentric Reducer	8,425.04	177.66
For Galvanized Fittings, Add	250.47	
23 21 13 23-1764 EA 18" x 14", Grooved Concentric Reducer	7,666.42	187.00
For Galvanized Fittings, Add	226.75	
23 21 13 23-1765 EA 18" x 16", Grooved Concentric Reducer	7,680.43	196.46
For Galvanized Fittings, Add	226.75	
23 21 13 23-1766 EA 20" x 10", Grooved Concentric Reducer	10,228.54	169.49
For Galvanized Fittings, Add	306.22	
23 21 13 23-1767 EA 20" x 12", Grooved Concentric Reducer	8,776.84	182.07
For Galvanized Fittings, Add	261.07	
23 21 13 23-1768 EA 20" x 14", Grooved Concentric Reducer	8,790.86	191.40
For Galvanized Fittings, Add	261.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1769	EA	20" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,845.22 231.62	200.61
23 21	13 23-1770	EA	20" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,359.10 246.99	209.30
23 21	13 23-1771	EA	24" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	22,509.37 682.36	188.54
23 21	13 23-1772	EA	24" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	21,991.49 665.88	201.13
23 21	13 23-1773	EA	24" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,173.16 578.93	210.34
23 21	13 23-1774	EA	24" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,187.26 578.93	219.80
23 21	13 23-1775	EA	24" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	16,438.52 494.15	228.35
23 21	13 23-1776	EA	24" x 20", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	15,019.36 450.38	232.77
23 21 13 23-1777 Grooved Eccentric Reducers (23 21 13 23-1683)					
Note: Victaulic No. 51					
23 21	13 23-1778	EA	1-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	507.63 57.82	17.77
23 21	13 23-1779	EA	1-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	462.10 52.19	18.54
23 21	13 23-1780	EA	1-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	453.93 51.05	19.45
23 21	13 23-1781	EA	2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	966.51 112.36	21.14
23 21	13 23-1782	EA	2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	512.54 57.63	22.04
23 21	13 23-1783	EA	2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	560.01 63.18	22.95
23 21	13 23-1784	EA	2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	478.34 52.89	25.54
23 21	13 23-1785	EA	2-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,255.97 146.67	23.86
23 21	13 23-1786	EA	2-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,173.84 136.64	24.77
23 21	13 23-1787	EA	2-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	698.54 79.36	25.54
23 21	13 23-1788	EA	2-1/2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	565.28 62.88	28.14
23 21	13 23-1789	EA	2-1/2" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	258.05 25.33	31.51
23 21	13 23-1790	EA	3" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,262.14 146.57	28.53
23 21	13 23-1791	EA	3" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,147.95 132.69	29.44
23 21	13 23-1792	EA	3" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	652.42 72.73	31.51
23 21	13 23-1793	EA	3" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	294.69 29.11	35.01
23 21	13 23-1794	EA	3" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	304.75 29.11	41.75
23 21	13 23-1795	EA	3-1/2" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,407.19 161.04	45.00
23 21	13 23-1796	EA	4" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,524.85 423.89	35.40
23 21	13 23-1797	EA	4" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,552.57 256.37	38.51
23 21	13 23-1798	EA	4" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	359.00 50.78	42.01
23 21	13 23-1799	EA	4" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	363.55 50.78	45.00
23 21	13 23-1800	EA	4" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	368.73 50.78	48.50
23 21	13 23-1801	EA	5" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,721.64 282.69	48.88
23 21	13 23-1802	EA	5" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,482.17 240.85	51.87
23 21	13 23-1803	EA	5" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,439.47 232.63	55.37
23 21	13 23-1804	EA	5" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	496.68 69.17	62.24
23 21	13 23-1805	EA	6" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,641.56 478.15	52.78
23 21	13 23-1806	EA	6" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,425.66 436.06	59.26
23 21	13 23-1807	EA	6" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,876.02 519.24	62.24
23 21	13 23-1808	EA	6" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	635.52 100.20	65.75
23 21	13 23-1809	EA	6" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	578.94 87.70	72.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1810 EA 6" x 5", Grooved Eccentric Reducer	683.11	79.62
For Galvanized Fittings, Add	105.20	
23 21 13 23-1811 EA 8" x 3", Grooved Eccentric Reducer	2,826.69	74.44
For Galvanized Fittings, Add	506.65	
23 21 13 23-1812 EA 8" x 4", Grooved Eccentric Reducer	2,494.76	81.31
For Galvanized Fittings, Add	442.78	
23 21 13 23-1813 EA 8" x 5", Grooved Eccentric Reducer	2,341.53	88.18
For Galvanized Fittings, Add	412.25	
23 21 13 23-1814 EA 8" x 6", Grooved Eccentric Reducer	1,100.86	98.55
For Galvanized Fittings, Add	177.84	
23 21 13 23-1815 EA 10" x 4", Grooved Eccentric Reducer	4,489.85	90.38
For Galvanized Fittings, Add	812.52	
23 21 13 23-1816 EA 10" x 5", Grooved Eccentric Reducer	4,248.31	97.26
For Galvanized Fittings, Add	765.51	
23 21 13 23-1817 EA 10" x 6", Grooved Eccentric Reducer	3,255.07	107.63
For Galvanized Fittings, Add	577.27	
23 21 13 23-1818 EA 10" x 8", Grooved Eccentric Reducer	2,792.74	116.32
For Galvanized Fittings, Add	488.58	
23 21 13 23-1819 EA 12" x 4", Grooved Eccentric Reducer	4,581.89	102.96
For Galvanized Fittings, Add	668.12	
23 21 13 23-1820 EA 12" x 6", Grooved Eccentric Reducer	4,313.00	120.21
For Galvanized Fittings, Add	623.64	
23 21 13 23-1821 EA 12" x 8", Grooved Eccentric Reducer	4,220.24	128.90
For Galvanized Fittings, Add	607.68	
23 21 13 23-1822 EA 12" x 10", Grooved Eccentric Reducer	3,813.92	137.97
For Galvanized Fittings, Add	544.30	
23 21 13 23-1823 EA 14" x 6", Grooved Eccentric Reducer	10,622.01	129.55
For Galvanized Fittings, Add	320.13	
23 21 13 23-1824 EA 14" x 8", Grooved Eccentric Reducer	6,873.98	138.23
For Galvanized Fittings, Add	204.67	
23 21 13 23-1825 EA 14" x 10", Grooved Eccentric Reducer	6,567.11	147.31
For Galvanized Fittings, Add	194.83	
23 21 13 23-1826 EA 14" x 12", Grooved Eccentric Reducer	6,585.87	159.76
For Galvanized Fittings, Add	194.83	
23 21 13 23-1827 EA 16" x 8", Grooved Eccentric Reducer	11,737.29	147.44
For Galvanized Fittings, Add	353.55	
23 21 13 23-1828 EA 16" x 10", Grooved Eccentric Reducer	10,876.54	156.52
For Galvanized Fittings, Add	326.70	
23 21 13 23-1829 EA 16" x 12", Grooved Eccentric Reducer	10,252.93	169.10
For Galvanized Fittings, Add	306.98	
23 21 13 23-1830 EA 16" x 14", Grooved Eccentric Reducer	10,266.94	178.43
For Galvanized Fittings, Add	306.98	
23 21 13 23-1831 EA 18" x 10", Grooved Eccentric Reducer	14,721.54	165.20
For Galvanized Fittings, Add	444.35	
23 21 13 23-1832 EA 18" x 12", Grooved Eccentric Reducer	13,857.35	177.66
For Galvanized Fittings, Add	417.24	
23 21 13 23-1833 EA 18" x 14", Grooved Eccentric Reducer	12,628.46	187.00
For Galvanized Fittings, Add	379.08	
23 21 13 23-1834 EA 18" x 16", Grooved Eccentric Reducer	12,642.47	196.46
For Galvanized Fittings, Add	379.08	
23 21 13 23-1835 EA 20" x 10", Grooved Eccentric Reducer	19,327.20	169.49
For Galvanized Fittings, Add	585.55	
23 21 13 23-1836 EA 20" x 12", Grooved Eccentric Reducer	14,381.07	182.07
For Galvanized Fittings, Add	433.12	
23 21 13 23-1837 EA 20" x 14", Grooved Eccentric Reducer	13,513.10	191.40
For Galvanized Fittings, Add	406.04	
23 21 13 23-1838 EA 20" x 16", Grooved Eccentric Reducer	13,312.91	200.61
For Galvanized Fittings, Add	399.47	
23 21 13 23-1839 EA 20" x 18", Grooved Eccentric Reducer	12,827.46	209.30
For Galvanized Fittings, Add	384.17	
23 21 13 23-1840 EA 24" x 12", Grooved Eccentric Reducer	27,912.34	201.13
For Galvanized Fittings, Add	847.65	
23 21 13 23-1841 EA 24" x 14", Grooved Eccentric Reducer	23,847.65	210.34
For Galvanized Fittings, Add	722.44	
23 21 13 23-1842 EA 24" x 16", Grooved Eccentric Reducer	23,861.75	219.80
For Galvanized Fittings, Add	722.44	
23 21 13 23-1843 EA 24" x 18", Grooved Eccentric Reducer	22,538.81	228.35
For Galvanized Fittings, Add	681.43	
23 21 13 23-1844 EA 24" x 20", Grooved Eccentric Reducer	20,604.39	232.77
For Galvanized Fittings, Add	621.84	
23 21 13 23-1845 Close Nipple, Grooved <small>(23 21 13 23-1683)</small>		
Note: Victaulic No. 143		
23 21 13 23-1846 EA 1-1/4" Ductile Iron, Grooved, Close Nipple	58.56	17.11
For Galvanized Fittings, Add	5.87	
For 300 LB Rating, Add	4.89	
For Galvanized Fittings, Add	8.35	
23 21 13 23-1847 EA 1-1/2" Ductile Iron, Grooved, Close Nipple	67.96	21.40
For Galvanized Fittings, Add	6.40	
For 300 LB Rating, Add	5.33	
For Galvanized Fittings, Add	9.10	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1848	EA	2" Ductile Iron, Grooved, Close Nipple.....	85.64	28.24
			<i>For Galvanized Fittings, Add</i>	7.71	
			<i>For 300 LB Rating, Add</i>	6.43	
			<i>For Galvanized Fittings, Add</i>	10.97	
23 21	13 23-1849	EA	2-1/2" Ductile Iron, Grooved, Close Nipple	102.50	34.24
			<i>For Galvanized Fittings, Add</i>	9.11	
			<i>For 300 LB Rating, Add</i>	7.59	
			<i>For Galvanized Fittings, Add</i>	12.96	
23 21	13 23-1850		Grooved Couplings <small>(23 21 13 23-1440)</small>		
23 21	13 23-1851		Flexible Grooved Coupling <small>(23 21 13 23-1850)</small>		
			Note: Victaulic Style 77		
23 21	13 23-1852	EA	3/4" Grooved Standard Coupling	58.16	7.00
			<i>For Galvanized Fittings, Add</i>	13.32	
23 21	13 23-1853	EA	1" Grooved Standard Coupling	58.16	7.00
			<i>For Galvanized Fittings, Add</i>	13.32	
23 21	13 23-1854	EA	1-1/4" Grooved Standard Coupling	76.51	8.81
			<i>For Galvanized Fittings, Add</i>	17.72	
23 21	13 23-1855	EA	1-1/2" Grooved Standard Coupling	84.97	10.50
			<i>For Galvanized Fittings, Add</i>	19.36	
23 21	13 23-1856	EA	2" Grooved Standard Coupling	94.27	14.14
			<i>For Galvanized Fittings, Add</i>	20.46	
23 21	13 23-1857	EA	2-1/2" Grooved Standard Coupling	113.29	17.24
			<i>For Galvanized Fittings, Add</i>	24.49	
23 21	13 23-1858	EA	3" Grooved Standard Coupling	118.29	20.61
			<i>For Galvanized Fittings, Add</i>	24.49	
23 21	13 23-1859	EA	3-1/2" Grooved Standard Coupling	177.15	24.12
			<i>For Galvanized Fittings, Add</i>	39.46	
23 21	13 23-1860	EA	4" Grooved Standard Coupling	182.22	27.50
			<i>For Galvanized Fittings, Add</i>	39.46	
23 21	13 23-1861	EA	5" Grooved Standard Coupling	267.68	34.50
			<i>For Galvanized Fittings, Add</i>	60.50	
23 21	13 23-1862	EA	6" Grooved Standard Coupling	322.94	45.00
			<i>For Galvanized Fittings, Add</i>	71.51	
23 21	13 23-1863	EA	8" Grooved Standard Coupling	496.72	53.68
			<i>For Galvanized Fittings, Add</i>	116.57	
23 21	13 23-1864	EA	10" Grooved Standard Coupling	788.39	64.32
			<i>For Galvanized Fittings, Add</i>	193.73	
23 21	13 23-1865	EA	12" Grooved Standard Coupling	893.32	70.41
			<i>For Galvanized Fittings, Add</i>	220.58	
23 21	13 23-1866	EA	14" Grooved Standard Coupling	1,097.74	93.89
			<i>For Galvanized Fittings, Add</i>	267.97	
23 21	13 23-1867	EA	16" Grooved Standard Coupling	1,424.18	112.69
			<i>For Galvanized Fittings, Add</i>	351.49	
23 21	13 23-1868	EA	18" Grooved Standard Coupling	1,657.78	125.13
			<i>For Galvanized Fittings, Add</i>	411.65	
23 21	13 23-1869	EA	20" Grooved Standard Coupling	2,523.88	140.83
			<i>For Galvanized Fittings, Add</i>	647.59	
23 21	13 23-1870	EA	24" Grooved Standard Coupling	2,796.11	173.24
			<i>For Galvanized Fittings, Add</i>	710.18	
23 21	13 23-1871		Zero-Flex® Rigid Coupling <small>(23 21 13 23-1850)</small>		
			Note: Victaulic Style 07		
23 21	13 23-1872	EA	1" Grooved Rigid Coupling.....	76.75	7.00
			<i>For Galvanized Fittings, Add</i>	16.21	
23 21	13 23-1873	EA	1-1/4" Grooved Rigid Coupling	79.40	8.81
			<i>For Galvanized Fittings, Add</i>	16.21	
23 21	13 23-1874	EA	1-1/2" Grooved Rigid Coupling	81.98	10.50
			<i>For Galvanized Fittings, Add</i>	16.21	
23 21	13 23-1875	EA	2" Grooved Rigid Coupling.....	89.04	14.14
			<i>For Galvanized Fittings, Add</i>	16.62	
23 21	13 23-1876	EA	2-1/2" Grooved Rigid Coupling	104.04	17.24
			<i>For Galvanized Fittings, Add</i>	19.16	
23 21	13 23-1877	EA	3" Grooved Rigid Coupling.....	109.04	20.61
			<i>For Galvanized Fittings, Add</i>	19.16	
23 21	13 23-1878	EA	3-1/2" Grooved Rigid Coupling	127.63	24.12
			<i>For Galvanized Fittings, Add</i>	22.39	
23 21	13 23-1879	EA	4" Grooved Rigid Coupling.....	170.82	27.50
			<i>For Galvanized Fittings, Add</i>	31.73	
23 21	13 23-1880	EA	5" Grooved Rigid Coupling.....	219.83	34.50
			<i>For Galvanized Fittings, Add</i>	41.21	
23 21	13 23-1881	EA	6" Grooved Rigid Coupling.....	292.38	45.00
			<i>For Galvanized Fittings, Add</i>	55.09	
23 21	13 23-1882	EA	8" Grooved Rigid Coupling.....	434.63	53.68
			<i>For Galvanized Fittings, Add</i>	86.79	
23 21	13 23-1883	EA	10" Grooved Rigid Coupling.....	731.20	64.32
			<i>For Galvanized Fittings, Add</i>	155.51	
23 21	13 23-1884	EA	12" Grooved Rigid Coupling.....	815.80	70.41
			<i>For Galvanized Fittings, Add</i>	174.02	
23 21	13 23-1885	EA	14" Grooved Rigid Coupling.....	1,068.68	93.89
			<i>For Galvanized Fittings, Add</i>	227.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1886 EA 16" Grooved Rigid Coupling	1,379.13	112.69
For Galvanized Fittings, Add	296.52	
23 21 13 23-1887 EA 18" Grooved Rigid Coupling	1,586.71	125.13
For Galvanized Fittings, Add	342.78	
23 21 13 23-1888 EA 20" Grooved Rigid Coupling	1,876.78	140.83
For Galvanized Fittings, Add	408.10	
23 21 13 23-1889 EA 24" Grooved Rigid Coupling	2,713.27	173.24
For Galvanized Fittings, Add	601.11	
23 21 13 23-1890 Large Diameter Grooved Coupling (23 21 13 23-1850)		
Note: Victaulic Style 770		
23 21 13 23-1891 EA 28" Grooved Coupling.....	2,995.75	34.50
For Galvanized Fittings, Add	412.18	
23 21 13 23-1892 EA 30" Grooved Coupling.....	3,457.15	45.00
For Galvanized Fittings, Add	474.55	
23 21 13 23-1893 EA 32" Grooved Coupling.....	5,156.56	53.68
For Galvanized Fittings, Add	710.66	
23 21 13 23-1894 EA 36" Grooved Coupling.....	6,859.16	64.32
For Galvanized Fittings, Add	946.78	
23 21 13 23-1895 EA 42" Grooved Coupling.....	13,782.41	70.41
For Galvanized Fittings, Add	1,914.76	
23 21 13 23-1896 Flexible Coupling (23 21 13 23-1850)		
Note: Victaulic Style 75		
23 21 13 23-1897 EA 1-1/2" Grooved Flexible Coupling	75.96	10.50
For Galvanized Fittings, Add	15.40	
23 21 13 23-1898 EA 2" Grooved Flexible Coupling	82.87	14.14
For Galvanized Fittings, Add	15.79	
23 21 13 23-1899 EA 2-1/2" Grooved Flexible Coupling	97.31	17.24
For Galvanized Fittings, Add	18.30	
23 21 13 23-1900 EA 3" Grooved Flexible Coupling	113.94	20.61
For Galvanized Fittings, Add	21.28	
23 21 13 23-1901 EA 3-1/2" Grooved Flexible Coupling	153.98	24.12
For Galvanized Fittings, Add	30.14	
23 21 13 23-1902 EA 4" Grooved Flexible Coupling	159.05	27.50
For Galvanized Fittings, Add	30.14	
23 21 13 23-1903 EA 5" Grooved Flexible Coupling	221.51	34.50
For Galvanized Fittings, Add	43.49	
23 21 13 23-1904 EA 6" Grooved Flexible Coupling	272.20	45.00
For Galvanized Fittings, Add	52.39	
23 21 13 23-1905 EA 8" Grooved Flexible Coupling	402.10	53.68
For Galvanized Fittings, Add	82.36	
23 21 13 23-1906 Installation-Ready™ Coupling (23 21 13 23-1850)		
Note: Victaulic Style 009N		
23 21 13 23-1907 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling	67.39	6.55
For Galvanized Fittings, Add	14.71	
23 21 13 23-1908 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling	70.51	7.83
For Galvanized Fittings, Add	15.01	
23 21 13 23-1909 EA 2" Ductile Iron, Installation-Ready™ Coupling	82.29	10.52
For Galvanized Fittings, Add	16.98	
23 21 13 23-1910 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling	95.75	12.76
For Galvanized Fittings, Add	19.56	
23 21 13 23-1911 EA 3" Ductile Iron, Installation-Ready™ Coupling	109.69	15.32
For Galvanized Fittings, Add	22.14	
23 21 13 23-1912 EA 4" Ductile Iron, Installation-Ready™ Coupling	152.44	20.45
For Galvanized Fittings, Add	31.09	
23 21 13 23-1913 EA 5" Ductile Iron, Installation-Ready™ Coupling	237.41	25.59
For Galvanized Fittings, Add	50.85	
23 21 13 23-1914 EA 6" Ductile Iron, Installation-Ready™ Coupling	288.06	33.46
For Galvanized Fittings, Add	60.76	
23 21 13 23-1915 EA 8" Ductile Iron, Installation-Ready™ Coupling	456.86	39.80
For Galvanized Fittings, Add	101.52	
23 21 13 23-1916 Grooved Strainers And Suction Diffusers (23 21 13 23-1440)		
23 21 13 23-1917 Grooved Wye Strainers (23 21 13 23-1916)		
Note: Victaulic Style 732		
23 21 13 23-1918 EA 2" Grooved Wye Strainer	1,562.10	28.53
23 21 13 23-1919 EA 2-1/2" Grooved Wye Strainer	1,647.95	34.62
23 21 13 23-1920 EA 3" Grooved Wye Strainer	1,855.52	41.50
23 21 13 23-1921 EA 4" Grooved Wye Strainer	2,112.09	55.37
23 21 13 23-1922 EA 5" Grooved Wye Strainer	3,043.11	69.25
23 21 13 23-1923 EA 6" Grooved Wye Strainer	3,326.68	89.99
23 21 13 23-1924 EA 8" Grooved Wye Strainer	5,053.68	107.25
23 21 13 23-1925 EA 10" Grooved Wye Strainer	8,053.13	125.39
23 21 13 23-1926 EA 12" Grooved Wye Strainer	13,965.56	150.56

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1927			Grooved Tee Type Strainers (23 21 13 23-1916)		
			Note: Victaulic Style 730		
23 21 13 23-1928	EA		1-1/2" Grooved Tee Type Strainer	1,204.85	21.66
23 21 13 23-1929	EA		2" Grooved Tee Type Strainer	1,543.35	28.53
23 21 13 23-1930	EA		2-1/2" Grooved Tee Type Strainer	1,628.45	34.62
23 21 13 23-1931	EA		3" Grooved Tee Type Strainer	1,833.50	41.50
23 21 13 23-1932	EA		4" Grooved Tee Type Strainer	2,087.12	55.37
23 21 13 23-1933	EA		5" Grooved Tee Type Strainer	3,006.76	69.25
23 21 13 23-1934	EA		6" Grooved Tee Type Strainer	3,287.48	89.99
23 21 13 23-1935	EA		8" Grooved Tee Type Strainer	4,992.99	107.25
23 21 13 23-1936	EA		10" Grooved Tee Type Strainer	7,284.99	125.39
23 21 13 23-1937	EA		12" Grooved Tee Type Strainer	9,361.40	150.56
23 21 13 23-1938	EA		14" Grooved Tee Type Strainer	32,819.01	169.49
23 21 13 23-1939	EA		16" Grooved Tee Type Strainer	40,754.66	187.64
23 21 13 23-1940	EA		18" Grooved Tee Type Strainer	53,541.45	205.01
23 21 13 23-1941			Grooved Suction Diffuser (23 21 13 23-1916)		
			Note: Victaulic Style 731		
23 21 13 23-1942	EA		2-1/2" Grooved x 2" Flanged Suction Diffuser.....	3,163.90	32.03
23 21 13 23-1943	EA		3" Grooved x 2" Flanged Suction Diffuser.....	3,359.81	35.40
23 21 13 23-1944	EA		3" Grooved x 2-1/2" Flanged Suction Diffuser.....	2,439.68	41.50
23 21 13 23-1945	EA		3" Grooved x 3" Flanged Suction Diffuser.....	2,476.14	45.00
23 21 13 23-1946	EA		4" Grooved x 2-1/2" Flanged Suction Diffuser.....	2,679.42	45.00
23 21 13 23-1947	EA		4" Grooved x 3" Flanged Suction Diffuser.....	2,890.70	48.50
23 21 13 23-1948	EA		4" Grooved x 4" Flanged Suction Diffuser.....	3,336.74	48.50
23 21 13 23-1949	EA		5" Grooved x 4" Flanged Suction Diffuser.....	3,731.31	62.24
23 21 13 23-1950	EA		5" Grooved x 5" Flanged Suction Diffuser.....	3,921.10	65.75
23 21 13 23-1951	EA		6" Grooved x 4" Flanged Suction Diffuser.....	3,987.75	72.62
23 21 13 23-1952	EA		6" Grooved x 5" Flanged Suction Diffuser.....	4,759.31	79.62
23 21 13 23-1953	EA		6" Grooved x 6" Flanged Suction Diffuser.....	4,944.82	84.81
23 21 13 23-1954	EA		8" Grooved x 5" Flanged Suction Diffuser.....	5,074.67	88.18
23 21 13 23-1955	EA		8" Grooved x 6" Flanged Suction Diffuser.....	5,359.55	98.55
23 21 13 23-1956	EA		8" Grooved x 8" Flanged Suction Diffuser.....	9,129.52	107.25
23 21 13 23-1957	EA		10" Grooved x 8" Flanged Suction Diffuser.....	10,294.47	115.93
23 21 13 23-1958	EA		10" Grooved x 10" Flanged Suction Diffuser.....	12,374.97	120.21
23 21 13 23-1959	EA		12" Grooved x 10" Flanged Suction Diffuser.....	14,641.68	138.36
23 21 13 23-1960	EA		12" Grooved x 12" Flanged Suction Diffuser.....	20,298.38	147.06
23 21 13 23-1961	EA		14" Grooved x 10" Flanged Suction Diffuser.....	18,906.71	147.06
23 21 13 23-1962	EA		14" Grooved x 12" Flanged Suction Diffuser.....	21,113.02	160.02
23 21 13 23-1963	EA		14" Grooved x 14" Flanged Suction Diffuser.....	25,601.55	169.49
23 21 13 23-1964	EA		16" Grooved x 14" Flanged Suction Diffuser.....	26,359.77	178.17
23 21 13 23-1965			Grooved Steel Valves (23 21 13 23-1440)		
23 21 13 23-1966			Grooved Butterfly Valves With Standard Trim (23 21 13 23-1965)		
23 21 13 23-1967	EA		1-1/2" Butterfly Valve, Grooved, With Standard Trim.....	281.02	14.14
23 21 13 23-1968	EA		2" Butterfly Valve, Grooved, With Standard Trim	287.72	18.54
23 21 13 23-1969	EA		3" Butterfly Valve, Grooved, With Standard Trim	471.26	27.50
23 21 13 23-1970	EA		4" Butterfly Valve, Grooved, With Standard Trim	632.78	36.18
23 21 13 23-1971	EA		6" Butterfly Valve, Grooved, With Standard Trim	1,375.66	59.26
23 21 13 23-1972	EA		8" Butterfly Valve, Grooved, With Standard Trim	1,906.80	83.38
23 21 13 23-1973	EA		10" Butterfly Valve, Grooved, With Standard Trim	2,860.00	112.69
23 21 13 23-1974			Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1965)		
23 21 13 23-1975	EA		1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim.....	420.22	14.14
23 21 13 23-1976	EA		2" Butterfly Valve, Grooved, With Stainless Steel Trim.....	426.91	18.54
23 21 13 23-1977	EA		3" Butterfly Valve, Grooved, With Stainless Steel Trim	659.95	27.50
23 21 13 23-1978	EA		4" Butterfly Valve, Grooved, With Stainless Steel Trim	840.03	36.18
23 21 13 23-1979	EA		6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,604.56	59.26
23 21 13 23-1980	EA		8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,661.55	83.38
23 21 13 23-1981	EA		10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,190.11	112.69
23 21 13 23-1982			Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-1965)		
			Note: Victaulic No. 721		
23 21 13 23-1983	EA		1-1/2" Ball Valve, Grooved, With Standard Trim.....	237.76	13.87
23 21 13 23-1984	EA		2" Ball Valve, Grooved, With Standard Trim	273.05	19.06
23 21 13 23-1985	EA		2-1/2" Ball Valve, Grooved, With Standard Trim	617.87	23.34
23 21 13 23-1986	EA		3" Ball Valve, Grooved, With Standard Trim	1,010.15	27.62
23 21 13 23-1987	EA		4" Ball Valve, Grooved, With Standard Trim	1,571.16	36.31
23 21 13 23-1988	EA		6" Ball Valve, Grooved, With Standard Trim	4,869.90	59.65
23 21 13 23-1989			Grooved Ball Valves With Stainless Steel Trim And Handle (23 21 13 23-1965)		
			Note: Victaulic No. 721		
23 21 13 23-1990	EA		1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	253.00	13.87
23 21 13 23-1991	EA		2" Ball Valve, Grooved, With Stainless Steel Trim	431.31	19.06
23 21 13 23-1992	EA		2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,116.87	23.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1993 EA 3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,443.57	27.62
23 21 13 23-1994 EA 4" Ball Valve, Grooved, With Stainless Steel Trim.....	1,971.68	36.31
23 21 13 23-1995 EA 6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,366.19	59.65
23 21 13 23-1996 Grooved Check Valves (23 21 13 23-1996)		
Note: Victaulic No. 712		
23 21 13 23-1997 EA 2" Check Valve, Grooved.....	360.18	19.06
23 21 13 23-1998 EA 2-1/2" Check Valve, Grooved.....	582.68	23.34
23 21 13 23-1999 EA 3" Check Valve, Grooved.....	679.03	27.62
23 21 13 23-2000 EA 4" Check Valve, Grooved.....	961.69	36.31
23 21 13 23-2001 Grooved Vic-Check Check Valves (23 21 13 23-1965)		
Note: Victaulic No. 716		
23 21 13 23-2002 EA 2-1/2" "Vic-Check" Check Valve, Grooved.....	466.95	23.34
23 21 13 23-2003 EA 3" "Vic-Check" Check Valve, Grooved.....	473.26	27.62
23 21 13 23-2004 EA 4" "Vic-Check" Check Valve, Grooved.....	593.58	36.31
23 21 13 23-2005 EA 6" "Vic-Check" Check Valve, Grooved.....	1,153.91	59.65
23 21 13 23-2006 EA 8" "Vic-Check" Check Valve, Grooved.....	1,579.31	82.99
23 21 13 23-2007 EA 10" "Vic-Check" Check Valve, Grooved.....	4,380.00	112.43
23 21 13 23-2008 EA 12" "Vic-Check" Check Valve, Grooved.....	5,185.74	129.80
23 21 13 23-2009 Grooved Plug Valves With Lever Operator (23 21 13 23-1965)		
Note: Victaulic No. 377		
23 21 13 23-2010 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	601.32	27.62
23 21 13 23-2011 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	670.59	36.31
23 21 13 23-2012 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,194.12	59.65
23 21 13 23-2013 Grooved Plug Valve With Gear Operator (23 21 13 23-1965)		
Note: Victaulic No. 377		
23 21 13 23-2014 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,052.98	27.62
23 21 13 23-2015 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,122.28	36.31
23 21 13 23-2016 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,645.82	59.65
23 21 13 23-2017 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,203.39	82.99
23 21 13 23-2018 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	3,447.22	112.43
23 21 13 23-2019 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	4,970.43	129.80
23 21 13 23-2020 Prepare Pipe For Groove (23 21 13 23-1440)		
23 21 13 23-2021 Cut Grooved Pipe (23 21 13 23-2020)		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2022 EA Cut 3/4" Groove Pipe.....	13.58	
23 21 13 23-2023 EA Cut 1" Groove Pipe.....	14.75	
23 21 13 23-2024 EA Cut 1-1/4" Groove Pipe.....	16.65	
23 21 13 23-2025 EA Cut 1-1/2" Groove Pipe.....	18.11	
23 21 13 23-2026 EA Cut 2" Groove Pipe.....	19.86	
23 21 13 23-2027 EA Cut 2-1/2" Groove Pipe.....	21.51	
23 21 13 23-2028 EA Cut 3" Groove Pipe.....	23.46	
23 21 13 23-2029 EA Cut 3-1/2" Groove Pipe.....	24.88	
23 21 13 23-2030 EA Cut 4" Groove Pipe.....	26.47	
23 21 13 23-2031 EA Cut 5" Groove Pipe.....	28.68	
23 21 13 23-2032 EA Cut 6" Groove Pipe.....	29.50	
23 21 13 23-2033 EA Cut 8" Groove Pipe.....	38.24	
23 21 13 23-2034 EA Cut 10" Groove Pipe.....	54.34	
23 21 13 23-2035 EA Cut 12" Groove Pipe.....	68.83	
23 21 13 23-2036 EA Cut 14" Groove Pipe.....	103.24	
23 21 13 23-2037 EA Cut 16" Groove Pipe.....	108.67	
23 21 13 23-2038 EA Cut 18" Groove Pipe.....	114.72	
23 21 13 23-2039 EA Cut 20" Groove Pipe.....	121.46	
23 21 13 23-2040 EA Cut 24" Groove Pipe.....	137.66	
23 21 13 23-2041 Roll Grooved Pipe (23 21 13 23-2020)		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2042 EA Roll 3/4" Groove.....	7.77	
23 21 13 23-2043 EA Roll 1" Groove.....	9.05	
23 21 13 23-2044 EA Roll 1-1/4" Groove.....	10.32	
23 21 13 23-2045 EA Roll 1-1/2" Groove.....	11.60	
23 21 13 23-2046 EA Roll 2" Groove.....	17.80	
23 21 13 23-2047 EA Roll 2-1/2" Groove.....	18.77	
23 21 13 23-2048 EA Roll 3" Groove.....	20.64	
23 21 13 23-2049 EA Roll 3-1/2" Groove.....	21.96	
23 21 13 23-2050 EA Roll 4" Groove.....	24.01	
23 21 13 23-2051 EA Roll 5" Groove.....	24.58	
23 21 13 23-2052 EA Roll 6" Groove.....	25.82	
23 21 13 23-2053 EA Roll 8" Groove.....	31.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2054	EA	Roll 10" Groove.....	35.60	
23 21	13 23-2055	EA	Roll 12" Groove.....	44.89	
23 21	13 23-2056	EA	Roll 14" Groove.....	68.83	
23 21	13 23-2057	EA	Roll 16" Groove.....	73.74	
23 21	13 23-2058	EA	Roll 18" Groove.....	76.48	
23 21	13 23-2059	EA	Roll 20" Groove.....	82.60	
23 21	13 23-2060	EA	Roll 24" Groove.....	89.78	
23 21	13 23-2061		Standard Gaskets <small>(23 21 13 23-2060)</small>		
			Note: For use on replacement of existing gaskets.		
23 21	13 23-2062	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	39.71	
23 21	13 23-2063	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	40.79	
23 21	13 23-2064	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	42.49	
23 21	13 23-2065	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	46.49	
23 21	13 23-2066	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	47.26	
23 21	13 23-2067	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	55.94	
23 21	13 23-2068	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	61.19	
23 21	13 23-2069	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	76.10	
23 21	13 23-2070	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	76.72	
23 21	13 23-2071	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	96.91	
23 21	13 23-2072	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	104.36	
23 21	13 23-2073	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	142.40	
23 21	13 23-2074	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	179.82	
23 21	13 23-2075	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	211.15	
23 21	13 23-2076	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	293.99	
23 21	13 23-2077	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	396.88	
23 21	13 23-2078	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	472.98	
23 21	13 23-2079	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	709.53	
23 21	13 23-2080	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	976.16	
23 21	13 23-2081		Copper Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small>		
			Note: Couplings are not included with fittings.		
23 21	13 23-2082		Grooved Fittings <small>(23 21 13 23-2081)</small>		
23 21	13 23-2083		Grooved 90 Degree Elbows <small>(23 21 13 23-2082)</small>		
23 21	13 23-2084	EA	2" Copper 90 Degree Elbow, Grooved.....	76.19	21.14
23 21	13 23-2085	EA	2-1/2" Copper 90 Degree Elbow, Grooved.....	88.21	25.81
23 21	13 23-2086	EA	3" Copper 90 Degree Elbow, Grooved.....	113.84	31.25
23 21	13 23-2087	EA	4" Copper 90 Degree Elbow, Grooved.....	200.25	41.24
23 21	13 23-2088	EA	5" Copper 90 Degree Elbow, Grooved.....	436.72	51.61
23 21	13 23-2089	EA	6" Copper 90 Degree Elbow, Grooved.....	667.25	67.56
23 21	13 23-2090	EA	8" Copper 90 Degree Elbow, Grooved.....	1,159.86	80.39
23 21	13 23-2091		Grooved 45 Degree Elbows <small>(23 21 13 23-2082)</small>		
23 21	13 23-2092	EA	2" Copper 45 Degree Elbow, Grooved.....	76.19	21.14
23 21	13 23-2093	EA	2-1/2" Copper 45 Degree Elbow, Grooved.....	88.21	25.81
23 21	13 23-2094	EA	3" Copper 45 Degree Elbow, Grooved.....	113.84	31.25
23 21	13 23-2095	EA	4" Copper 45 Degree Elbow, Grooved.....	200.25	41.24
23 21	13 23-2096	EA	5" Copper 45 Degree Elbow, Grooved.....	436.72	51.61
23 21	13 23-2097	EA	6" Copper 45 Degree Elbow, Grooved.....	667.25	67.56
23 21	13 23-2098	EA	8" Copper 45 Degree Elbow, Grooved.....	1,159.86	80.39
23 21	13 23-2099		Grooved Tees <small>(23 21 13 23-2082)</small>		
23 21	13 23-2100	EA	2" Copper Tee, Grooved.....	117.75	31.12
23 21	13 23-2101	EA	2-1/2" Copper Tee, Grooved.....	135.30	38.25
23 21	13 23-2102	EA	3" Copper Tee, Grooved.....	181.39	46.94
23 21	13 23-2103	EA	4" Copper Tee, Grooved.....	313.37	60.69
23 21	13 23-2104	EA	5" Copper Tee, Grooved.....	1,003.31	79.36
23 21	13 23-2105	EA	6" Copper Tee, Grooved.....	862.06	99.33
23 21	13 23-2106	EA	8" Copper Tee, Grooved.....	1,425.83	120.60
23 21	13 23-2107		Grooved Reducing Tees <small>(23 21 13 23-2082)</small>		
23 21	13 23-2108	EA	2-1/2" Copper Tee, Reducing, Grooved.....	164.17	38.25
23 21	13 23-2109	EA	3" Copper Tee, Reducing, Grooved.....	242.68	46.94
23 21	13 23-2110	EA	4" Copper Tee, Reducing, Grooved.....	373.58	60.82
23 21	13 23-2111	EA	5" Copper Tee, Reducing, Grooved.....	928.31	79.49
23 21	13 23-2112	EA	6" Copper Tee, Reducing, Grooved.....	1,138.10	99.33
23 21	13 23-2113		Grooved X Cup Reducing Tees <small>(23 21 13 23-2082)</small>		
23 21	13 23-2114	EA	2" Copper Tee, Reducing, Grooved X Cup.....	133.19	31.12
23 21	13 23-2115	EA	2-1/2" Copper Tee, Reducing, Grooved X Cup.....	164.48	38.25
23 21	13 23-2116	EA	3" Copper Tee, Reducing, Grooved X Cup.....	256.57	46.94
23 21	13 23-2117	EA	4" Copper Tee, Reducing, Grooved X Cup.....	373.58	60.69



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2118 Grooved Flanged Adapter Nipples <small>(23 21 13 23-2082)</small>						
	23 21	13	23-2119	EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	191.94	22.95
	23 21	13	23-2120	EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	207.71	27.88
	23 21	13	23-2121	EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	225.74	33.33
	23 21	13	23-2122	EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	264.23	44.87
	23 21	13	23-2123	EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	343.17	54.34
	23 21	13	23-2124	EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	401.99	73.39
23 21 13 23-2125 Grooved Concentric Reducers <small>(23 21 13 23-2082)</small>						
	23 21	13	23-2126	EA 2-1/2" x 2" Copper Concentric Reducer, Grooved	95.80	23.60
	23 21	13	23-2127	EA 3" x 2" Copper Concentric Reducer, Grooved	101.00	26.33
	23 21	13	23-2128	EA 3" x 2-1/2" Copper Concentric Reducer, Grooved	111.06	31.25
	23 21	13	23-2129	EA 4" x 2" Copper Concentric Reducer, Grooved	162.02	31.51
	23 21	13	23-2130	EA 4" x 2-1/2" Copper Concentric Reducer, Grooved	166.57	33.71
	23 21	13	23-2131	EA 4" x 3" Copper Concentric Reducer, Grooved	171.75	36.31
	23 21	13	23-2132	EA 5" x 3" Copper Concentric Reducer, Grooved	361.83	41.50
	23 21	13	23-2133	EA 5" x 4" Copper Concentric Reducer, Grooved	372.20	46.68
	23 21	13	23-2134	EA 6" x 3" Copper Concentric Reducer, Grooved	400.39	49.28
	23 21	13	23-2135	EA 6" x 4" Copper Concentric Reducer, Grooved	410.77	54.47
	23 21	13	23-2136	EA 6" x 5" Copper Concentric Reducer, Grooved	421.15	59.65
	23 21	13	23-2137	EA 8" x 6" Copper Concentric Reducer, Grooved	677.54	73.91
23 21 13 23-2138 Grooved X Cup Concentric Reducers <small>(23 21 13 23-2082)</small>						
	23 21	13	23-2139	EA 2" x 1" Copper Concentric Reducer, Grooved X Cup	73.21	16.60
	23 21	13	23-2140	EA 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	74.51	17.24
	23 21	13	23-2141	EA 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	78.47	19.20
	23 21	13	23-2142	EA 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup	86.15	18.54
	23 21	13	23-2143	EA 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	87.43	19.20
	23 21	13	23-2144	EA 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	91.24	21.14
	23 21	13	23-2145	EA 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup	96.42	23.60
	23 21	13	23-2146	EA 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	108.30	23.60
	23 21	13	23-2147	EA 3" x 2" Copper Concentric Reducer, Grooved X Cup	113.50	26.33
	23 21	13	23-2148	EA 4" x 2" Copper Concentric Reducer, Grooved X Cup	176.07	31.38
23 21 13 23-2149 Grooved Standard Couplings <small>(23 21 13 23-2082)</small>						
	23 21	13	23-2150	EA 2" Copper Standard Coupling, Grooved	32.85	10.63
	23 21	13	23-2151	EA 2-1/2" Copper Standard Coupling, Grooved	39.18	12.97
	23 21	13	23-2152	EA 3" Copper Standard Coupling, Grooved	45.53	15.43
	23 21	13	23-2153	EA 4" Copper Standard Coupling, Grooved	63.81	20.74
	23 21	13	23-2154	EA 5" Copper Standard Coupling, Grooved	89.91	25.81
	23 21	13	23-2155	EA 6" Copper Standard Coupling, Grooved	118.12	33.71
	23 21	13	23-2156	EA 8" Copper Standard Coupling, Grooved	159.14	40.20
23 21 13 23-2157 Grooved Caps <small>(23 21 13 23-2082)</small>						
	23 21	13	23-2158	EA 2" Copper Cap, Grooved	44.50	10.63
	23 21	13	23-2159	EA 2-1/2" Copper Cap, Grooved	60.40	12.97
	23 21	13	23-2160	EA 3" Copper Cap, Grooved	73.74	15.43
	23 21	13	23-2161	EA 4" Copper Cap, Grooved	105.68	20.61
	23 21	13	23-2162	EA 5" Copper Cap, Grooved	165.77	25.81
	23 21	13	23-2163	EA 6" Copper Cap, Grooved	198.92	33.71
23 21 13 23-2164 Grooved Valves <small>(23 21 13 23-2081)</small>						
23 21 13 23-2165 Grooved Butterfly Valves, Standard Trim, Without Operator <small>(23 21 13 23-2164)</small>						
Note: Copper body.						
	23 21	13	23-2166	EA 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	462.68	13.87
				<i>For Chain Wheel, Add</i>	43.45	
				<i>For Valve Bracket Insulation, Add</i>	38.20	
	23 21	13	23-2167	EA 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	528.30	20.61
				<i>For Chain Wheel, Add</i>	43.45	
				<i>For Valve Bracket Insulation, Add</i>	38.20	
	23 21	13	23-2168	EA 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	698.30	27.10
				<i>For Chain Wheel, Add</i>	43.45	
				<i>For Valve Bracket Insulation, Add</i>	38.20	
	23 21	13	23-2169	EA 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	935.29	44.48
				<i>For Chain Wheel, Add</i>	43.45	
				<i>For Valve Bracket Insulation, Add</i>	38.20	
	23 21	13	23-2170	EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	1,036.87	62.51
				<i>For Chain Wheel, Add</i>	43.45	
				<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21 13 23-2171 Grooved Butterfly Valves, Standard Trim, With Operator <small>(23 21 13 23-2164)</small>						
Note: Copper body.						

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2172	EA	2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	563.91 43.45 38.20	13.87
23 21	13 23-2173	EA	3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	629.61 43.45 38.20	20.61
23 21	13 23-2174	EA	4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	799.60 43.45 38.20	27.10
23 21	13 23-2175	EA	6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,036.66 43.45 38.20	44.48
23 21	13 23-2176	EA	8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,138.18 43.45 38.20	62.51
23 21	13 23-2177		Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23) Note: Socket or back weld.		
23 21	13 23-2178		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2177) Note: ASTM D1785 with D2466 fittings.		
23 21	13 23-2179		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2178)		
23 21	13 23-2180	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.11 1.67	3.71
23 21	13 23-2181	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.65 2.09	4.63
23 21	13 23-2182	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.43 2.22	4.94
23 21	13 23-2183	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.31 2.39	5.31
23 21	13 23-2184	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.63 2.43	5.40
23 21	13 23-2185	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.79 2.92	6.47
23 21	13 23-2186	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	14.81 3.46	7.69
23 21	13 23-2187	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	18.20 4.18	9.30
23 21	13 23-2188	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	27.05 6.28	13.94
23 21	13 23-2189	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	38.59 8.37	18.59
23 21	13 23-2190	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	49.49 9.98	22.16
23 21	13 23-2191	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	86.83 11.12	24.76
23 21	13 23-2192		Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2178)		
23 21	13 23-2193	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	21.60 6.28	14.00
23 21	13 23-2194	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	28.85 8.37	18.54
23 21	13 23-2195	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	36.29 10.37	23.08
23 21	13 23-2196	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	52.08 14.68	32.68
23 21	13 23-2197	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	58.53 16.55	36.83
23 21	13 23-2198	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	75.36 21.03	46.81
23 21	13 23-2199	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	119.76 31.12	69.25
23 21	13 23-2200	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	155.74 40.95	91.03
23 21	13 23-2201	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	196.47 48.63	108.15
23 21	13 23-2202	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	267.55 55.58	123.58
23 21	13 23-2203	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	428.02 64.84	144.20
23 21	13 23-2204	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21	13 23-2205		Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2178)		
23 21	13 23-2206	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	21.95 6.28	14.00
23 21	13 23-2207	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	29.53 8.37	18.54
23 21	13 23-2208	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	37.25 10.37	23.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2209 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	52.70 14.68	32.68
23 21 13 23-2210 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	59.90 16.55	36.83
23 21 13 23-2211 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	76.25 21.03	46.81
23 21 13 23-2212 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	119.76 31.12	69.25
23 21 13 23-2213 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	161.49 40.95	91.03
23 21 13 23-2214 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	206.94 48.63	108.15
23 21 13 23-2215 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	268.51 55.58	123.58
23 21 13 23-2216 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	416.45 64.84	144.20
23 21 13 23-2217 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21 13 23-2218 Schedule 40 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2178)		
23 21 13 23-2219 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	35.40 10.37	23.08
23 21 13 23-2220 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	42.72 12.55	27.88
23 21 13 23-2221 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	56.89 16.55	36.83
23 21 13 23-2222 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	72.83 21.03	46.81
23 21 13 23-2223 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	87.01 25.10	55.76
23 21 13 23-2224 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	108.60 31.12	69.25
23 21 13 23-2225 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	152.66 40.95	91.03
23 21 13 23-2226 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	183.26 48.63	108.15
23 21 13 23-2227 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	254.46 64.84	144.20
23 21 13 23-2228 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	408.13 83.66	185.96
23 21 13 23-2229 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	645.67 103.74	230.69
23 21 13 23-2230 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	1,690.19 155.04	344.67
23 21 13 23-2231 Schedule 40 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2178)		
23 21 13 23-2232 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	44.51 12.97	28.78
23 21 13 23-2233 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	53.68 15.68	34.88
23 21 13 23-2234 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	71.67 20.69	46.04
23 21 13 23-2235 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	91.91 26.29	58.48
23 21 13 23-2236 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	109.84 31.37	69.77
23 21 13 23-2237 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	137.29 38.90	86.49
23 21 13 23-2238 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	195.96 51.19	113.86
23 21 13 23-2239 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	235.78 60.79	135.12
23 21 13 23-2240 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	330.26 81.05	180.24
23 21 13 23-2241 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	551.07 104.53	232.38
23 21 13 23-2242 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	902.10 129.61	288.13
23 21 13 23-2243 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	2,485.73 193.89	431.04
23 21 13 23-2244 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2245 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	22.31 6.51	14.27
23 21 13 23-2246 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.07 8.33	18.28
23 21 13 23-2247 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	38.82 11.13	24.51
23 21 13 23-2248 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	48.05 13.88	30.47

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2249	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	58.70 16.71	36.70
23 21	13 23-2250	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	82.05 23.18	50.97
23 21	13 23-2251	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	113.96 32.03	70.41
23 21	13 23-2252	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	148.93 39.81	87.53
23 21	13 23-2253	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	194.70 46.31	101.92
23 21	13 23-2254	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	410.25 53.52	117.75
23 21	13 23-2255	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	496.67 71.78	157.94
23 21	13 23-2256		Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2178)</small>		
23 21	13 23-2257	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	22.36 6.28	14.00
23 21	13 23-2258	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.33 8.37	18.54
23 21	13 23-2259	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	36.36 10.37	23.08
23 21	13 23-2260	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	51.67 14.68	32.68
23 21	13 23-2261	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	58.33 16.55	36.83
23 21	13 23-2262	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	74.40 21.03	46.81
23 21	13 23-2263	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	109.97 31.12	69.25
23 21	13 23-2264	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	143.69 40.95	91.03
23 21	13 23-2265	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	178.32 48.63	108.15
23 21	13 23-2266		Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2178)</small>		
23 21	13 23-2267	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.84 6.28	14.00
23 21	13 23-2268	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	29.81 8.37	18.54
23 21	13 23-2269	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	37.32 10.37	23.08
23 21	13 23-2270	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	52.22 14.68	32.68
23 21	13 23-2271	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	59.56 16.55	36.83
23 21	13 23-2272	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	75.50 21.03	46.81
23 21	13 23-2273	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	111.20 31.12	69.25
23 21	13 23-2274	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	147.45 40.95	91.03
23 21	13 23-2275	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	176.14 48.63	108.15
23 21	13 23-2276		Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2178)</small>		
23 21	13 23-2277	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	21.60 6.28	14.00
23 21	13 23-2278	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.78 8.37	18.54
23 21	13 23-2279	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.61 10.37	23.08
23 21	13 23-2280	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	50.57 14.68	32.68
23 21	13 23-2281	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	57.10 16.55	36.83
23 21	13 23-2282	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	72.69 21.03	46.81
23 21	13 23-2283	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	115.04 31.12	69.25
23 21	13 23-2284	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	151.70 40.95	91.03
23 21	13 23-2285	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	187.22 48.63	108.15
23 21	13 23-2286		Schedule 40 Polyvinyl Chloride (PVC) P-Traps <small>(23 21 13 23-2178)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2287 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	33.53 8.56	19.06
23 21 13 23-2288 Schedule 40 Polyvinyl Chloride (PVC) Couplings <small>(23 21 13 23-2178)</small>		
23 21 13 23-2289 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	21.33 6.28	14.00
23 21 13 23-2290 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	28.44 8.37	18.54
23 21 13 23-2291 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	35.61 10.37	23.08
23 21 13 23-2292 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	50.30 14.68	32.68
23 21 13 23-2293 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	56.69 16.55	36.83
23 21 13 23-2294 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	72.42 21.03	46.81
23 21 13 23-2295 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	108.94 31.12	69.25
23 21 13 23-2296 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	144.65 40.95	91.03
23 21 13 23-2297 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	173.94 48.63	108.15
23 21 13 23-2298 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	222.78 55.58	123.58
23 21 13 23-2299 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	286.22 64.84	144.20
23 21 13 23-2300 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	553.43 69.50	154.57
23 21 13 23-2301 Schedule 40 Polyvinyl Chloride (PVC) Unions <small>(23 21 13 23-2178)</small>		
23 21 13 23-2302 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	38.59 10.37	23.08
23 21 13 23-2303 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	53.40 12.55	27.88
23 21 13 23-2304 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	68.12 16.55	36.83
23 21 13 23-2305 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	101.58 21.03	46.81
23 21 13 23-2306 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	116.52 25.10	55.76
23 21 13 23-2307 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	148.04 31.12	69.25
23 21 13 23-2308 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	216.88 40.95	91.03
23 21 13 23-2309 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	247.27 48.63	108.15
23 21 13 23-2310 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	385.01 64.84	144.20
23 21 13 23-2311 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21 13 23-2312 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21 13 23-2313 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	1,044.84 128.75	286.19
23 21 13 23-2314 Schedule 40 Polyvinyl Chloride (PVC) Caps <small>(23 21 13 23-2178)</small>		
23 21 13 23-2315 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	10.07 2.86	6.30
23 21 13 23-2316 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	13.24 3.77	8.30
23 21 13 23-2317 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	16.66 4.67	10.24
23 21 13 23-2318 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	23.78 6.68	14.69
23 21 13 23-2319 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	26.47 7.45	16.34
23 21 13 23-2320 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	33.53 9.46	20.88
23 21 13 23-2321 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	53.18 14.00	30.87
23 21 13 23-2322 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	68.48 18.43	40.58
23 21 13 23-2323 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	89.10 21.88	48.11
23 21 13 23-2324 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	122.05 25.01	54.98
23 21 13 23-2325 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	226.66 29.18	64.19
23 21 13 23-2326 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	623.78 43.50	95.70

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 21 13 23-2327		Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <small>(23 21 13 23-2178)</small>			
23 21 13 23-2328	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges.....	48.34		23.08
		<i>For Work In Restricted Working Space, Add</i>	10.37		
23 21 13 23-2329	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	62.92		27.88
		<i>For Work In Restricted Working Space, Add</i>	12.55		
23 21 13 23-2330	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	78.66		36.83
		<i>For Work In Restricted Working Space, Add</i>	16.55		
23 21 13 23-2331	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	94.26		46.81
		<i>For Work In Restricted Working Space, Add</i>	21.03		
23 21 13 23-2332	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	108.37		55.76
		<i>For Work In Restricted Working Space, Add</i>	25.10		
23 21 13 23-2333	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	136.60		69.25
		<i>For Work In Restricted Working Space, Add</i>	31.12		
23 21 13 23-2334	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	187.23		91.03
		<i>For Work In Restricted Working Space, Add</i>	40.95		
23 21 13 23-2335	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	218.10		108.15
		<i>For Work In Restricted Working Space, Add</i>	48.63		
23 21 13 23-2336	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	287.05		144.20
		<i>For Work In Restricted Working Space, Add</i>	64.84		
23 21 13 23-2337	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	390.27		185.96
		<i>For Work In Restricted Working Space, Add</i>	83.63		
23 21 13 23-2338	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	597.22		230.57
		<i>For Work In Restricted Working Space, Add</i>	103.69		
23 21 13 23-2339	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges.....	995.55		285.80
		<i>For Work In Restricted Working Space, Add</i>	128.54		
23 21 13 23-2340		Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2177)</small>			
		Note: ASTM D1785 with D2467 fittings.			
23 21 13 23-2341		Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2340)</small>			
23 21 13 23-2342	LF	1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	6.26		3.76
		<i>For Work In Restricted Working Space, Add</i>	1.67		
23 21 13 23-2343	LF	3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	7.85		4.67
		<i>For Work In Restricted Working Space, Add</i>	2.09		
23 21 13 23-2344	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.67		5.57
		<i>For Work In Restricted Working Space, Add</i>	2.50		
23 21 13 23-2345	LF	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	11.55		6.48
		<i>For Work In Restricted Working Space, Add</i>	2.93		
23 21 13 23-2346	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	13.28		7.39
		<i>For Work In Restricted Working Space, Add</i>	3.34		
23 21 13 23-2347	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	17.06		9.34
		<i>For Work In Restricted Working Space, Add</i>	4.18		
23 21 13 23-2348	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	19.99		10.24
		<i>For Work In Restricted Working Space, Add</i>	4.60		
23 21 13 23-2349	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	22.90		11.15
		<i>For Work In Restricted Working Space, Add</i>	5.02		
23 21 13 23-2350	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	29.98		14.00
		<i>For Work In Restricted Working Space, Add</i>	6.28		
23 21 13 23-2351	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	45.11		18.54
		<i>For Work In Restricted Working Space, Add</i>	8.37		
23 21 13 23-2352	LF	8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	59.49		22.17
		<i>For Work In Restricted Working Space, Add</i>	9.98		
23 21 13 23-2353	LF	10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	116.64		23.86
		<i>For Work In Restricted Working Space, Add</i>	10.74		
23 21 13 23-2354		Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2340)</small>			
23 21 13 23-2355	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	23.38		14.00
		<i>For Work In Restricted Working Space, Add</i>	6.28		
		<i>For Threaded Fittings, Add</i>	3.14		
23 21 13 23-2356	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	31.11		18.54
		<i>For Work In Restricted Working Space, Add</i>	8.37		
		<i>For Threaded Fittings, Add</i>	4.18		
23 21 13 23-2357	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	39.78		23.08
		<i>For Work In Restricted Working Space, Add</i>	10.37		
		<i>For Threaded Fittings, Add</i>	5.19		
23 21 13 23-2358	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	55.85		32.68
		<i>For Work In Restricted Working Space, Add</i>	14.68		
		<i>For Threaded Fittings, Add</i>	7.34		
23 21 13 23-2359	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	62.57		36.83
		<i>For Work In Restricted Working Space, Add</i>	16.55		
		<i>For Threaded Fittings, Add</i>	8.28		
23 21 13 23-2360	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	79.06		46.81
		<i>For Work In Restricted Working Space, Add</i>	21.03		
		<i>For Threaded Fittings, Add</i>	10.51		
23 21 13 23-2361	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	124.76		69.25
		<i>For Work In Restricted Working Space, Add</i>	31.12		
		<i>For Threaded Fittings, Add</i>	15.56		
23 21 13 23-2362	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	160.12		91.03
		<i>For Work In Restricted Working Space, Add</i>	40.95		
		<i>For Threaded Fittings, Add</i>	20.48		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2363 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	197.97 48.63 24.32	108.15
23 21 13 23-2364 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	314.86 55.58 27.79	123.58
23 21 13 23-2365 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	497.85 64.84 32.42	144.20
23 21 13 23-2366 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	639.79 96.68 48.34	215.00
23 21 13 23-2367 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2340)		
23 21 13 23-2368 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.64 6.28 3.14	14.00
23 21 13 23-2369 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	35.08 8.37 4.18	18.54
23 21 13 23-2370 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.40 10.37 5.19	23.08
23 21 13 23-2371 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.76 14.68 7.34	32.68
23 21 13 23-2372 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.47 16.55 8.28	36.83
23 21 13 23-2373 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	91.25 21.03 10.51	46.81
23 21 13 23-2374 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	148.24 31.12 15.56	69.25
23 21 13 23-2375 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	190.66 40.95 20.48	91.03
23 21 13 23-2376 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	259.67 48.63 24.32	108.15
23 21 13 23-2377 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	308.09 55.58 27.79	123.58
23 21 13 23-2378 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	482.46 64.84 32.42	144.20
23 21 13 23-2379 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	622.49 96.68 48.34	215.00
23 21 13 23-2380 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2340)		
23 21 13 23-2381 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.88 9.85 4.92	21.91
23 21 13 23-2382 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	49.22 12.55 6.27	27.88
23 21 13 23-2383 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	64.42 16.55 8.28	36.83
23 21 13 23-2384 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	95.63 21.03 10.51	46.81
23 21 13 23-2385 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	109.20 25.10 12.55	55.76
23 21 13 23-2386 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	135.71 31.12 15.56	69.25
23 21 13 23-2387 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	171.28 40.95 20.48	91.03
23 21 13 23-2388 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	205.51 48.63 24.32	108.15
23 21 13 23-2389 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	266.44 64.84 32.42	144.20
23 21 13 23-2390 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	450.79 83.66 41.83	185.96

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2391 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	744.56 103.74 51.87	230.69
23 21 13 23-2392 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,690.27 155.04 77.52	344.67
23 21 13 23-2393 Schedule 80 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2340)</small>		
23 21 13 23-2394 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	52.09 12.31 6.16	27.36
23 21 13 23-2395 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	63.87 15.68 7.84	34.88
23 21 13 23-2396 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	83.47 20.69 10.35	46.04
23 21 13 23-2397 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	127.65 26.29 13.14	58.48
23 21 13 23-2398 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	144.61 31.37 15.69	69.77
23 21 13 23-2399 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	179.79 38.90 19.45	86.49
23 21 13 23-2400 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	225.16 51.19 25.59	113.86
23 21 13 23-2401 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	270.67 60.79 30.39	135.12
23 21 13 23-2402 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	349.05 81.05 40.52	180.24
23 21 13 23-2403 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	617.95 104.53 52.27	232.38
23 21 13 23-2404 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,057.12 129.61 64.80	288.13
23 21 13 23-2405 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	2,485.85 193.89 96.95	431.04
23 21 13 23-2406 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2340)</small>		
23 21 13 23-2407 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	29.33 8.37	18.54
23 21 13 23-2408 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	38.76 10.37	23.08
23 21 13 23-2409 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	55.50 14.68	32.68
23 21 13 23-2410 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	64.15 16.55	36.83
23 21 13 23-2411 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	82.89 21.03	46.81
23 21 13 23-2412 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	125.92 31.12	69.25
23 21 13 23-2413 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	171.76 40.95	91.03
23 21 13 23-2414 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	210.98 48.63	108.15
23 21 13 23-2415 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	239.48 55.58	123.58
23 21 13 23-2416 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	336.48 64.84	144.20
23 21 13 23-2417 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	508.49 75.32	167.41
23 21 13 23-2418 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2340)</small>		
23 21 13 23-2419 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	21.40 6.28	14.00
23 21 13 23-2420 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	30.56 8.37	18.54
23 21 13 23-2421 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	38.76 10.37	23.08
23 21 13 23-2422 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	57.42 14.68	32.68
23 21 13 23-2423 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	65.86 16.55	36.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2424 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	83.17 21.03	46.81
23 21 13 23-2425 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	131.40 31.12	69.25
23 21 13 23-2426 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	187.71 40.95	91.03
23 21 13 23-2427 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	240.83 48.63	108.15
 23 21 13 23-2428 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2340)</small>		
23 21 13 23-2429 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.74 6.28	14.00
23 21 13 23-2430 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.33 8.37	18.54
23 21 13 23-2431 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	45.81 10.37	23.08
23 21 13 23-2432 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	62.08 14.68	32.68
23 21 13 23-2433 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	74.08 16.55	36.83
23 21 13 23-2434 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	94.74 21.03	46.81
23 21 13 23-2435 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	131.81 31.12	69.25
23 21 13 23-2436 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	167.65 40.95	91.03
23 21 13 23-2437 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	217.49 48.63	108.15
 23 21 13 23-2438 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2340)</small>		
23 21 13 23-2439 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.17 6.28	14.00
23 21 13 23-2440 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.19 8.37	18.54
23 21 13 23-2441 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	43.89 10.37	23.08
23 21 13 23-2442 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	64.06 14.68	32.68
23 21 13 23-2443 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	73.73 16.55	36.83
23 21 13 23-2444 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	102.40 21.03	46.81
23 21 13 23-2445 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	154.81 31.12	69.25
23 21 13 23-2446 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	194.01 40.95	91.03
23 21 13 23-2447 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	260.96 48.63	108.15
 23 21 13 23-2448 Schedule 80 Polyvinyl Chloride (PVC) Couplings <small>(23 21 13 23-2340)</small>		
23 21 13 23-2449 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.44 6.28 3.14	14.00
23 21 13 23-2450 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.98 8.37 4.18	18.54
23 21 13 23-2451 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	40.88 10.37 5.19	23.08
23 21 13 23-2452 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	58.58 14.68 7.34	32.68
23 21 13 23-2453 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	65.59 16.55 8.28	36.83
23 21 13 23-2454 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	81.18 21.03 10.51	46.81
23 21 13 23-2455 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	131.19 31.12 15.56	69.25
23 21 13 23-2456 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	168.06 40.95 20.48	91.03
23 21 13 23-2457 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	201.67 48.63 24.32	108.15

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2458	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	270.36 55.58 27.79	123.58
23 21	13 23-2459	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	331.96 64.84 32.42	144.20
23 21	13 23-2460	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	573.97 69.50 34.75	154.57
23 21	13 23-2461		Schedule 80 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2340)		
23 21	13 23-2462	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	44.71 10.37	23.08
23 21	13 23-2463	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	53.54 12.55	27.88
23 21	13 23-2464	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	68.53 16.55	36.83
23 21	13 23-2465	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	103.50 21.03	46.81
23 21	13 23-2466	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	126.65 25.10	55.76
23 21	13 23-2467	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	162.00 31.12	69.25
23 21	13 23-2468	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	244.98 40.95	91.03
23 21	13 23-2469	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	301.93 48.63	108.15
23 21	13 23-2470	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	385.43 64.84	144.20
23 21	13 23-2471	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21	13 23-2472	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21	13 23-2473	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,044.16 128.54	285.80
23 21	13 23-2474		Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions (23 21 13 23-2340)		
23 21	13 23-2475	EA	1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	49.22	28.81
23 21	13 23-2476	EA	3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	58.30	33.33
23 21	13 23-2477	EA	1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	70.21	39.30
23 21	13 23-2478	EA	1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	91.53	46.81
23 21	13 23-2479	EA	1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	110.07	55.76
23 21	13 23-2480	EA	2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	144.08	69.25
23 21	13 23-2481	EA	3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	303.48	134.22
23 21	13 23-2482	EA	4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	330.39	148.87
23 21	13 23-2483		Schedule 80 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2340)		
23 21	13 23-2484	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	15.79 2.83 1.41	6.23
23 21	13 23-2485	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.27 3.77 1.88	8.30
23 21	13 23-2486	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	27.47 4.67 2.33	10.24
23 21	13 23-2487	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	36.40 6.61 3.30	14.53
23 21	13 23-2488	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.21 7.45 3.72	16.34
23 21	13 23-2489	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.11 9.46 4.73	20.88
23 21	13 23-2490	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	90.98 14.00 7.00	30.87
23 21	13 23-2491	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	115.58 18.43 9.21	40.58
23 21	13 23-2492	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.03 21.88 10.94	48.11
23 21	13 23-2493	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	299.72 25.01 12.51	54.98
23 21	13 23-2494	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	394.46 29.18 14.59	64.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2495 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	692.24 43.50 21.75	95.70
23 21 13 23-2496 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <small>(23 21 13 23-2340)</small>		
23 21 13 23-2497 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.23 10.37 5.19	23.08
23 21 13 23-2498 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.92 12.55 6.27	27.88
23 21 13 23-2499 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	78.66 16.55 8.28	36.83
23 21 13 23-2500 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	94.26 21.03 10.51	46.81
23 21 13 23-2501 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	108.38 25.10 12.55	55.76
23 21 13 23-2502 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	136.60 31.12 15.56	69.25
23 21 13 23-2503 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	187.23 40.95 20.48	91.03
23 21 13 23-2504 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	218.10 48.63 24.32	108.15
23 21 13 23-2505 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.05 64.84 32.42	144.20
23 21 13 23-2506 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	390.28 83.63 41.81	185.96
23 21 13 23-2507 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	597.22 103.69 51.84	230.57
23 21 13 23-2508 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	995.55 128.54 64.27	285.80
23 21 13 23-2509 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-177)</small> Note: In place pipe.		
23 21 13 23-2510 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.04 2.11	
23 21 13 23-2511 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.60 2.28	
23 21 13 23-2512 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.56 2.57	
23 21 13 23-2513 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.98 2.69	
23 21 13 23-2514 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.50 2.85	
23 21 13 23-2515 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.46 3.14	
23 21 13 23-2516 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.26 3.38	
23 21 13 23-2517 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.30 3.99	
23 21 13 23-2518 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.96 5.39	
23 21 13 23-2519 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	25.66 7.70	
23 21 13 23-2520 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	34.22 10.27	
23 21 13 23-2521 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	41.84 12.55	
23 21 13 23-2522 Polyethylene Pipe And Fittings <small>(23 21 13 23)</small>		
23 21 13 23-2523 Small Diameter Tubing <small>(23 21 13 23-2522)</small>		
23 21 13 23-2524 Tubing <small>(23 21 13 23-2523)</small>		
23 21 13 23-2525 LF 1/4" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.04 1.17	
23 21 13 23-2526 LF 5/16" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.24 1.20	
23 21 13 23-2527 LF 3/8" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.39 1.22	
23 21 13 23-2528 LF 1/2" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.64 1.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2529 Chrome Plated Pipe <small>(23 21 13 23)</small>		
23 21 13 23-2530 Chrome Plated Nipples <small>(23 21 13 23-2529)</small>		
23 21 13 23-2531 Close <small>(23 21 13 23-2530)</small>		
23 21 13 23-2532 EA 1/4" Diameter Chrome Plated Nipple, Close.....	23.77	11.26
23 21 13 23-2533 EA 3/8" Diameter Chrome Plated Nipple, Close.....	23.17	12.25
23 21 13 23-2534 EA 1/2" Diameter Chrome Plated Nipple, Close.....	28.47	14.09
23 21 13 23-2535 EA 3/4" Diameter Chrome Plated Nipple, Close.....	37.16	17.89
23 21 13 23-2536 EA 1" Diameter Chrome Plated Nipple, Close.....	49.63	23.52
23 21 13 23-2537 EA 1-1/4" Diameter Chrome Plated Nipple, Close.....	70.19	32.81
23 21 13 23-2538 EA 1-1/2" Diameter Chrome Plated Nipple, Close.....	85.16	38.45
23 21 13 23-2539 EA 2" Diameter Chrome Plated Nipple, Close.....	109.23	47.89
23 21 13 23-2540 1-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2541 EA 1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	25.30	11.69
23 21 13 23-2542 EA 3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	24.40	12.67
23 21 13 23-2543 EA 1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	29.21	14.51
23 21 13 23-2544 EA 3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	38.43	18.31
23 21 13 23-2545 2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2546 EA 1/4" Diameter, 2" Length, Chrome Plated Nipple.....	26.32	12.25
23 21 13 23-2547 EA 3/8" Diameter, 2" Length, Chrome Plated Nipple.....	25.26	13.09
23 21 13 23-2548 EA 1/2" Diameter, 2" Length, Chrome Plated Nipple.....	31.28	15.07
23 21 13 23-2549 EA 3/4" Diameter, 2" Length, Chrome Plated Nipple.....	40.20	18.74
23 21 13 23-2550 EA 1" Diameter, 2" Length, Chrome Plated Nipple.....	52.37	24.37
23 21 13 23-2551 EA 1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	74.48	33.80
23 21 13 23-2552 EA 1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	90.09	39.43
23 21 13 23-2553 2-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2554 EA 1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	27.76	12.67
23 21 13 23-2555 EA 3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	26.17	13.66
23 21 13 23-2556 EA 1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	32.57	15.50
23 21 13 23-2557 EA 3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	41.17	19.30
23 21 13 23-2558 EA 1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	53.80	24.93
23 21 13 23-2559 EA 1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	78.49	34.22
23 21 13 23-2560 EA 1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	95.38	39.85
23 21 13 23-2561 EA 2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	120.90	49.30
23 21 13 23-2562 3" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2563 EA 1/4" Diameter, 3" Length, Chrome Plated Nipple.....	28.91	13.09
23 21 13 23-2564 EA 3/8" Diameter, 3" Length, Chrome Plated Nipple.....	27.63	14.09
23 21 13 23-2565 EA 1/2" Diameter, 3" Length, Chrome Plated Nipple.....	32.07	15.07
23 21 13 23-2566 EA 3/4" Diameter, 3" Length, Chrome Plated Nipple.....	44.13	19.72
23 21 13 23-2567 EA 1" Diameter, 3" Length, Chrome Plated Nipple.....	59.69	25.35
23 21 13 23-2568 EA 1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	82.85	34.79
23 21 13 23-2569 EA 1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	107.69	40.42
23 21 13 23-2570 EA 2" Diameter, 3" Length, Chrome Plated Nipple.....	130.57	49.86
23 21 13 23-2571 3-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2572 EA 1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.18	13.66
23 21 13 23-2573 EA 3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.01	14.51
23 21 13 23-2574 EA 1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	35.31	16.48
23 21 13 23-2575 EA 3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	48.44	20.14
23 21 13 23-2576 EA 1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	62.05	25.77
23 21 13 23-2577 EA 1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	91.28	35.21
23 21 13 23-2578 EA 1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	111.47	40.84
23 21 13 23-2579 EA 2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	138.30	50.28
23 21 13 23-2580 4" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2581 EA 1/4" Diameter, 4" Length, Chrome Plated Nipple.....	31.45	14.09
23 21 13 23-2582 EA 3/8" Diameter, 4" Length, Chrome Plated Nipple.....	30.79	15.07
23 21 13 23-2583 EA 1/2" Diameter, 4" Length, Chrome Plated Nipple.....	35.43	15.92
23 21 13 23-2584 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	50.23	20.71
23 21 13 23-2585 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	64.30	26.34
23 21 13 23-2586 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	97.74	35.63
23 21 13 23-2587 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	119.10	41.26
23 21 13 23-2588 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	147.70	50.71
23 21 13 23-2589 4-1/2" Nipples <small>(23 21 13 23-2530)</small>		
23 21 13 23-2590 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	32.60	14.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 21 13 23-2591 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	33.18	15.50
				23 21 13 23-2592 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	38.82	17.33
				23 21 13 23-2593 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	52.26	21.13
				23 21 13 23-2594 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	71.75	26.76
				23 21 13 23-2595 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	103.93	36.19
				23 21 13 23-2596 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	122.58	41.84
				23 21 13 23-2597 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	156.35	51.27
				23 21 13 23-2598 5" Nipples (23 21 13 23-2530)		
				23 21 13 23-2599 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	36.20	15.07
				23 21 13 23-2600 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	34.71	15.92
				23 21 13 23-2601 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	40.18	17.89
				23 21 13 23-2602 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	54.20	21.55
				23 21 13 23-2603 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	76.33	27.18
				23 21 13 23-2604 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	109.58	36.62
				23 21 13 23-2605 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	130.24	42.26
				23 21 13 23-2606 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	161.99	51.69
				23 21 13 23-2607 5-1/2" Nipples (23 21 13 23-2530)		
				23 21 13 23-2608 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	37.37	15.50
				23 21 13 23-2609 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	35.96	16.48
				23 21 13 23-2610 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	43.77	18.31
				23 21 13 23-2611 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	56.15	22.11
				23 21 13 23-2612 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	78.78	27.75
				23 21 13 23-2613 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	116.39	37.04
				23 21 13 23-2614 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	136.37	42.68
				23 21 13 23-2615 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	169.15	52.11
				23 21 13 23-2616 6" Nipples (23 21 13 23-2530)		
				23 21 13 23-2617 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	38.72	15.92
				23 21 13 23-2618 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	36.70	16.91
				23 21 13 23-2619 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	45.03	18.74
				23 21 13 23-2620 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	57.75	22.54
				23 21 13 23-2621 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	86.02	28.17
				23 21 13 23-2622 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	120.63	37.60
				23 21 13 23-2623 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	145.74	43.24
				23 21 13 23-2624 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	175.69	52.68
				23 21 13 23-2625 8" Nipples (23 21 13 23-2530)		
				23 21 13 23-2626 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	43.26	17.89
				23 21 13 23-2627 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	62.43	19.72
				23 21 13 23-2628 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	75.79	23.52
				23 21 13 23-2629 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	100.26	29.15
				23 21 13 23-2630 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	143.11	38.45
				23 21 13 23-2631 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	175.06	44.09
				23 21 13 23-2632 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	215.51	53.52
				23 21 13 23-2633 10" Nipples (23 21 13 23-2530)		
				23 21 13 23-2634 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	49.29	17.89
				23 21 13 23-2635 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	70.02	19.72
				23 21 13 23-2636 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	84.58	23.52
				23 21 13 23-2637 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	113.56	29.15
				23 21 13 23-2638 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	171.59	38.45
				23 21 13 23-2639 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	196.76	44.09
				23 21 13 23-2640 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	250.19	53.52
				23 21 13 23-2641 12" Nipples (23 21 13 23-2530)		
				23 21 13 23-2642 EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	54.95	19.72
				23 21 13 23-2643 EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	73.31	20.71
				23 21 13 23-2644 EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	93.08	24.37
				23 21 13 23-2645 EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	132.60	30.98
				23 21 13 23-2646 EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	191.87	40.42
				23 21 13 23-2647 EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	280.81	55.49
				23 21 13 23-2648 18" Nipples (23 21 13 23-2530)		
				23 21 13 23-2649 EA 3/8" Diameter, 18" Length, Chrome Plated Nipple.....	69.07	20.71
				23 21 13 23-2650 24" Nipples (23 21 13 23-2530)		
				23 21 13 23-2651 EA 3/8" Diameter, 24" Length, Chrome Plated Nipple.....	82.59	21.55

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2652 30" Nipples (23 21 13 23-2530)		
23 21 13 23-2653 EA 3/8" Diameter, 30" Length, Chrome Plated Nipple.....	91.28	22.54
23 21 13 23-2654 36" Nipples (23 21 13 23-2530)		
23 21 13 23-2655 EA 3/8" Diameter, 36" Length, Chrome Plated Nipple.....	100.00	23.52
23 21 13 23-2656 Chrome Plated Fittings (23 21 13 23-2529)		
23 21 13 23-2657 Chrome Plated 90 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2658 EA 1/4" 90 Degree Elbow, Chrome Plated.....	29.86	13.09
23 21 13 23-2659 EA 3/8" 90 Degree Elbow, Chrome Plated.....	30.62	14.09
23 21 13 23-2660 EA 1/2" 90 Degree Elbow, Chrome Plated.....	34.26	15.07
23 21 13 23-2661 EA 3/4" 90 Degree Elbow, Chrome Plated.....	43.85	19.72
23 21 13 23-2662 EA 1" 90 Degree Elbow, Chrome Plated.....	59.20	25.35
23 21 13 23-2663 EA 1-1/4" 90 Degree Elbow, Chrome Plated.....	90.08	34.79
23 21 13 23-2664 EA 1-1/2" 90 Degree Elbow, Chrome Plated.....	107.90	40.42
23 21 13 23-2665 EA 2" 90 Degree Elbow, Chrome Plated.....	146.44	49.86
23 21 13 23-2666 Chrome Plated Street 90 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2667 EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	34.11	13.09
23 21 13 23-2668 EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	35.28	14.09
23 21 13 23-2669 EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	37.50	15.07
23 21 13 23-2670 EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	48.63	19.72
23 21 13 23-2671 EA 1" Street 90 Degree Elbow, Chrome Plated.....	68.02	25.35
23 21 13 23-2672 EA 1-1/4" Street 90 Degree Elbow, Chrome Plated.....	99.12	34.79
23 21 13 23-2673 EA 1-1/2" Street 90 Degree Elbow, Chrome Plated.....	120.56	40.42
23 21 13 23-2674 EA 2" Street 90 Degree Elbow, Chrome Plated.....	176.23	49.86
23 21 13 23-2675 Chrome Plated 45 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2676 EA 1/4" 45 Degree Elbow, Chrome Plated.....	30.79	13.09
23 21 13 23-2677 EA 3/8" 45 Degree Elbow, Chrome Plated.....	31.96	14.09
23 21 13 23-2678 EA 1/2" 45 Degree Elbow, Chrome Plated.....	35.22	15.07
23 21 13 23-2679 EA 3/4" 45 Degree Elbow, Chrome Plated.....	47.50	19.72
23 21 13 23-2680 EA 1" 45 Degree Elbow, Chrome Plated.....	63.29	25.35
23 21 13 23-2681 EA 1-1/4" 45 Degree Elbow, Chrome Plated.....	94.98	34.79
23 21 13 23-2682 EA 1-1/2" 45 Degree Elbow, Chrome Plated.....	114.46	40.42
23 21 13 23-2683 EA 2" 45 Degree Elbow, Chrome Plated.....	164.46	49.86
23 21 13 23-2684 Chrome Plated Street 45 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2685 EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	41.06	15.07
23 21 13 23-2686 Chrome Plated Couplings (23 21 13 23-2656)		
23 21 13 23-2687 EA 1/4" Coupling, Chrome Plated.....	29.28	13.09
23 21 13 23-2688 EA 3/8" Coupling, Chrome Plated.....	30.69	14.09
23 21 13 23-2689 EA 1/2" Coupling, Chrome Plated.....	34.50	15.07
23 21 13 23-2690 EA 3/4" Coupling, Chrome Plated.....	43.94	19.72
23 21 13 23-2691 EA 1" Coupling, Chrome Plated.....	57.19	25.35
23 21 13 23-2692 EA 1-1/4" Coupling, Chrome Plated.....	82.73	34.79
23 21 13 23-2693 EA 1-1/2" Coupling, Chrome Plated.....	101.75	40.42
23 21 13 23-2694 EA 2" Coupling, Chrome Plated.....	138.93	49.86
23 21 13 23-2695 Chrome Plated Unions (23 21 13 23-2656)		
23 21 13 23-2696 EA 1/4" Union, Chrome Plated.....	45.62	15.07
23 21 13 23-2697 EA 3/8" Union, Chrome Plated.....	47.05	15.92
23 21 13 23-2698 EA 1/2" Union, Chrome Plated.....	56.54	17.89
23 21 13 23-2699 EA 3/4" Union, Chrome Plated.....	70.42	23.52
23 21 13 23-2700 EA 1" Union, Chrome Plated.....	89.13	30.00
23 21 13 23-2701 EA 1-1/4" Union, Chrome Plated.....	142.64	40.42
23 21 13 23-2702 EA 1-1/2" Union, Chrome Plated.....	177.06	47.89
23 21 13 23-2703 EA 2" Union, Chrome Plated.....	230.07	58.31
23 21 13 23-2704 Chrome Plated Caps (23 21 13 23-2656)		
23 21 13 23-2705 EA 1/4" Cap, Chrome Plated.....	19.18	6.62
23 21 13 23-2706 EA 3/8" Cap, Chrome Plated.....	19.88	7.04
23 21 13 23-2707 EA 1/2" Cap, Chrome Plated.....	22.57	7.46
23 21 13 23-2708 EA 3/4" Cap, Chrome Plated.....	28.28	9.86
23 21 13 23-2709 EA 1" Cap, Chrome Plated.....	33.83	12.67
23 21 13 23-2710 EA 1-1/4" Cap, Chrome Plated.....	49.62	17.33
23 21 13 23-2711 EA 1-1/2" Cap, Chrome Plated.....	64.77	20.14
23 21 13 23-2712 EA 2" Cap, Chrome Plated.....	93.98	26.34



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2713				Chrome Plated Plugs <small>(23 21 13 23-2656)</small>		
23 21 13 23-2714	EA			1/4" Plug, Chrome Plated	15.94	6.62
23 21 13 23-2715	EA			3/8" Plug, Chrome Plated	16.64	7.04
23 21 13 23-2716	EA			1/2" Plug, Chrome Plated	19.16	7.46
23 21 13 23-2717	EA			3/4" Plug, Chrome Plated	25.85	9.86
23 21 13 23-2718	EA			1" Plug, Chrome Plated	31.98	12.67
23 21 13 23-2719	EA			1-1/4" Plug, Chrome Plated	43.24	17.33
23 21 13 23-2720	EA			1-1/2" Plug, Chrome Plated	53.07	20.14
23 21 13 23-2721	EA			2" Plug, Chrome Plated	73.63	26.34
23 21 13 23-2722				Chrome Plated Tees <small>(23 21 13 23-2656)</small>		
23 21 13 23-2723	EA			1/4" Chrome Plated Tee	41.81	19.72
23 21 13 23-2724	EA			3/8" Chrome Plated Tee	44.62	21.55
23 21 13 23-2725	EA			1/2" Chrome Plated Tee	49.60	23.52
23 21 13 23-2726	EA			3/4" Chrome Plated Tee	61.75	29.15
23 21 13 23-2727	EA			1" Chrome Plated Tee	86.94	37.60
23 21 13 23-2728	EA			1-1/4" Chrome Plated Tee	119.83	51.69
23 21 13 23-2729	EA			1-1/2" Chrome Plated Tee	152.04	60.14
23 21 13 23-2730	EA			2" Chrome Plated Tee	206.73	74.23
23 21 13 23-2731				Chrome Plated Reducing 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
23 21 13 23-2732	EA			1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	47.44	23.52
23 21 13 23-2733	EA			3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	55.89	29.15
23 21 13 23-2734				Chrome Plated Bell Reducers <small>(23 21 13 23-2656)</small>		
23 21 13 23-2735	EA			1/2" x 3/8" Bell Reducer, Chrome Plated	51.35	23.52
23 21 13 23-2736	EA			3/4" x 1/2" Bell Reducer, Chrome Plated	62.64	29.15
23 21 13 23-2737	EA			1" x 1/2" Bell Reducer, Chrome Plated	79.71	37.60
23 21 13 23-2738				Chrome Plated Reducing Tees <small>(23 21 13 23-2656)</small>		
23 21 13 23-2739	EA			3/4" x 1/2" Reducing Tee, Chrome Plated	67.61	29.15
23 21 13 23-2740				Chrome Plated Bushings <small>(23 21 13 23-2656)</small>		
23 21 13 23-2741	EA			3/8" x 1/4" Bushing, Chrome Plated	15.84	6.62
23 21 13 23-2742	EA			1/2" x 1/4" Bushing, Chrome Plated	17.05	7.04
23 21 13 23-2743	EA			1/2" x 3/8" Bushing, Chrome Plated	17.75	7.46
23 21 13 23-2744	EA			3/4" x 1/2" Bushing, Chrome Plated	22.63	9.86
23 21 13 23-2745	EA			1" x 3/4" Bushing, Chrome Plated	32.60	12.67
23 21 13 23-2746	EA			1-1/4" x 1" Bushing, Chrome Plated	47.45	17.33
23 21 13 23-2747				Aluminum Tubing Assemblies <small>(23 21 13 23)</small>		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2748	LF			1/8" Inside Diameter Aluminum Pipe/Tubing Assembly	11.45	4.93
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2749	LF			3/16" Inside Diameter Aluminum Pipe/Tubing Assembly	13.07	5.63
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2750	LF			1/4" Inside Diameter Aluminum Pipe/Tubing Assembly	14.58	6.34
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2751	LF			5/16" Inside Diameter Aluminum Pipe/Tubing Assembly	16.05	7.04
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2752	LF			3/8" Inside Diameter Aluminum Pipe/Tubing Assembly	17.73	7.74
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2753	LF			1/2" Inside Diameter Aluminum Pipe/Tubing Assembly	20.01	8.45
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2754	LF			5/8" Inside Diameter Aluminum Pipe/Tubing Assembly	23.32	9.73
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2755	LF			3/4" Inside Diameter Aluminum Pipe/Tubing Assembly	27.96	11.03
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2756	LF			7/8" Inside Diameter Aluminum Pipe/Tubing Assembly	32.08	12.31
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.						
23 21 13 23-2757	LF			1" Inside Diameter Aluminum Pipe/Tubing Assembly	37.07	12.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 21 16 Hydronic Piping Specialties (23 21)**

23 21 16 00-0001	Vent Valves (23 21 16)		
23 21 16 00-0002	EA 1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A)	79.81	21.14
23 21 16 00-0003	EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74)	175.21	22.73
23 21 16 00-0004	EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75)	167.68	22.73
23 21 16 00-0005	EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H)	172.95	22.73
23 21 16 00-0006	EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)	219.06	22.73
23 21 16 00-0007	EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79)	165.61	22.73

23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)

23 21 16 00-0009	Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0010	EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	277.39	35.42
	For Flanged Inlet, Add	93.22	
23 21 16 00-0011	EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow	316.44	41.98
	For Flanged Inlet, Add	100.08	
23 21 16 00-0012	EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	394.34	48.54
	For Flanged Inlet, Add	135.01	
23 21 16 00-0013	EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow	571.67	55.10
	For Flanged Inlet, Add	237.54	
23 21 16 00-0014	EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow	648.53	65.59
	For Flanged Inlet, Add	262.60	
23 21 16 00-0015	EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow	892.29	82.64
	For Flanged Inlet, Add	383.75	
23 21 16 00-0016	EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow	1,938.95	108.88
	For Flanged Inlet, Add	1,021.15	

23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)

23 21 16 00-0018	EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	593.91	35.42
	For Flanged Inlet, Add	308.45	
23 21 16 00-0019	EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow	718.92	41.98
	For Flanged Inlet, Add	373.76	
23 21 16 00-0020	EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,014.95	48.54
	For Flanged Inlet, Add	557.03	
23 21 16 00-0021	EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,041.50	55.10
	For Flanged Inlet, Add	557.03	
23 21 16 00-0022	EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,484.56	65.59
	For Flanged Inlet, Add	831.10	
23 21 16 00-0023	EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,550.15	82.64
	For Flanged Inlet, Add	831.10	
23 21 16 00-0024	EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow	2,536.07	108.88
	For Flanged Inlet, Add	1,427.19	

23 21 16 00-0025 Y-Type Strainers (23 21 16)

23 21 16 00-0026	Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0027	EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	86.47	15.78
	For Galvanized Body, Add	20.69	
	For Work In Restricted Working Space, Add	13.53	
23 21 16 00-0028	EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	87.17	16.07
	For Galvanized Body, Add	20.69	
	For Work In Restricted Working Space, Add	13.74	
23 21 16 00-0029	EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	111.38	21.70
	For Galvanized Body, Add	24.70	
	For Work In Restricted Working Space, Add	18.60	
23 21 16 00-0030	EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	140.71	25.92
	For Galvanized Body, Add	33.37	
	For Work In Restricted Working Space, Add	22.19	
23 21 16 00-0031	EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	183.02	32.05
	For Galvanized Body, Add	45.72	
	For Work In Restricted Working Space, Add	27.47	
23 21 16 00-0032	EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	208.76	34.52
	For Galvanized Body, Add	55.07	
	For Work In Restricted Working Space, Add	29.59	
23 21 16 00-0033	EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	282.24	39.44
	For Galvanized Body, Add	84.77	
	For Work In Restricted Working Space, Add	33.81	
23 21 16 00-0034	EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	522.00	49.31
	For Galvanized Body, Add	190.56	
	For Work In Restricted Working Space, Add	42.27	
23 21 16 00-0035	EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	674.02	61.71
	For Galvanized Body, Add	248.96	
	For Work In Restricted Working Space, Add	52.83	

23 21 16 00-0036 Flanged, 125 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	330.31	147.93
<i>For Galvanized Body, Add</i>	72.47	
<i>For Work In Restricted Working Space, Add</i>	55.61	
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	391.66	187.81
<i>For Galvanized Body, Add</i>	78.42	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	673.65	239.52
<i>For Galvanized Body, Add</i>	186.95	
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	927.47	401.54
<i>For Galvanized Body, Add</i>	212.15	
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	979.45	404.43
<i>For Galvanized Body, Add</i>	237.34	
<i>For Work In Restricted Working Space, Add</i>	151.43	
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,153.25	449.37
<i>For Galvanized Body, Add</i>	294.77	
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,874.37	574.19
<i>For Galvanized Body, Add</i>	580.55	
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,461.63	699.02
<i>For Galvanized Body, Add</i>	1,293.93	
<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,939.04	624.12
<i>For Galvanized Body, Add</i>	1,345.40	
<i>For Work In Restricted Working Space, Add</i>	374.47	
23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers <small>(23 21 16 00-0025)</small>		
Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	73.12	16.07
<i>For 300 LB Rating, Add</i>	46.46	
<i>For Work In Restricted Working Space, Add</i>	13.74	
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	97.52	21.70
<i>For 300 LB Rating, Add</i>	60.40	
<i>For Work In Restricted Working Space, Add</i>	18.60	
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	118.73	25.92
<i>For 300 LB Rating, Add</i>	76.09	
<i>For Work In Restricted Working Space, Add</i>	22.19	
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	147.62	32.05
<i>For 300 LB Rating, Add</i>	95.27	
<i>For Work In Restricted Working Space, Add</i>	27.47	
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	171.41	34.52
<i>For 300 LB Rating, Add</i>	123.73	
<i>For Work In Restricted Working Space, Add</i>	29.59	
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	230.93	39.44
<i>For 300 LB Rating, Add</i>	200.97	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	335.99	49.31
<i>For 300 LB Rating, Add</i>	331.67	
<i>For Work In Restricted Working Space, Add</i>	42.27	
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	580.63	61.71
<i>For 300 LB Rating, Add</i>	687.68	
<i>For Work In Restricted Working Space, Add</i>	52.83	
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	979.04	73.97
<i>For 300 LB Rating, Add</i>	1,305.09	
<i>For Work In Restricted Working Space, Add</i>	63.40	
23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers <small>(23 21 16 00-0025)</small>		
Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	574.38	187.81
<i>For 300 LB Rating, Add</i>	203.74	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	602.12	204.29
<i>For 300 LB Rating, Add</i>	207.58	
<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	695.92	239.52
<i>For 300 LB Rating, Add</i>	237.70	
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,465.78	401.54
<i>For 300 LB Rating, Add</i>	577.56	
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	2,022.86	449.37
<i>For 300 LB Rating, Add</i>	875.48	
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	3,203.41	574.19
<i>For 300 LB Rating, Add</i>	1,494.08	
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	9,811.19	699.02
<i>For 300 LB Rating, Add</i>	5,362.45	
<i>For Work In Restricted Working Space, Add</i>	262.13	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0064			Cast Iron Body, Suction Diffusers ^(23 21 16) Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065	EA		2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser .....499.51	55.51	
			<i>For Work In Restricted Working Space, Add</i> 27.18		
23 21 16 00-0066	EA		2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser .....525.92	61.57	
			<i>For Work In Restricted Working Space, Add</i> 30.19		
23 21 16 00-0067	EA		2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser .....535.08	64.66	
			<i>For Work In Restricted Working Space, Add</i> 31.71		
23 21 16 00-0068	EA		2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....1,024.94	204.29	
			<i>For Work In Restricted Working Space, Add</i> 76.85		
23 21 16 00-0069	EA		3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser .....556.23	75.24	
			<i>For Work In Restricted Working Space, Add</i> 36.83		
23 21 16 00-0070	EA		3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser .....625.75	75.24	
			<i>For Work In Restricted Working Space, Add</i> 36.83		
23 21 16 00-0071	EA		3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....2,075.36	222.37	
			<i>For Work In Restricted Working Space, Add</i> 83.39		
23 21 16 00-0072	EA		3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....1,101.25	239.52	
			<i>For Work In Restricted Working Space, Add</i> 89.93		
23 21 16 00-0073	EA		4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....1,346.08	321.18	
			<i>For Work In Restricted Working Space, Add</i> 120.44		
23 21 16 00-0074	EA		4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....1,590.92	401.54	
			<i>For Work In Restricted Working Space, Add</i> 150.95		
23 21 16 00-0075	EA		6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....1,805.15	403.81	
			<i>For Work In Restricted Working Space, Add</i> 151.43		
23 21 16 00-0076	EA		6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....2,170.79	449.37	
			<i>For Work In Restricted Working Space, Add</i> 169.12		
23 21 16 00-0077	EA		8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....2,471.65	574.19	
			<i>For Work In Restricted Working Space, Add</i> 213.98		
23 21 16 00-0078	EA		8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....3,735.23	574.19	
			<i>For Work In Restricted Working Space, Add</i> 213.98		
23 21 16 00-0079	EA		10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....4,280.11	699.02	
			<i>For Work In Restricted Working Space, Add</i> 262.13		
23 21 16 00-0080	EA		10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser .....4,971.19	699.02	
			<i>For Work In Restricted Working Space, Add</i> 262.13		
23 21 16 00-0081			Duplex Strainers ^(23 21 16)		
23 21 16 00-0082			Iron Body, Duplex Strainers ^(23 21 16 00-0081)		
23 21 16 00-0083			Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers ^(23 21 16 00-0082) Note: With brass or stainless steel basket.		
23 21 16 00-0084	EA		3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....767.24	35.08	
			<i>For Work In Restricted Working Space, Add</i> 21.06		
23 21 16 00-0085	EA		1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....857.26	40.15	
			<i>For Work In Restricted Working Space, Add</i> 24.11		
23 21 16 00-0086	EA		1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....1,158.03	47.20	
			<i>For Work In Restricted Working Space, Add</i> 28.30		
23 21 16 00-0087	EA		1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....1,453.34	51.43	
			<i>For Work In Restricted Working Space, Add</i> 30.86		
23 21 16 00-0088	EA		2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....1,944.61	62.69	
			<i>For Work In Restricted Working Space, Add</i> 37.74		
23 21 16 00-0089	EA		2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....2,447.69	80.31	
			<i>For Work In Restricted Working Space, Add</i> 48.17		
23 21 16 00-0090			Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers ^(23 21 16 00-0082) Note: With brass or stainless steel basket.		
23 21 16 00-0091	EA		2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....2,667.15	187.81	
			<i>For Work In Restricted Working Space, Add</i> 70.45		
23 21 16 00-0092	EA		2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....2,761.10	204.29	
			<i>For Work In Restricted Working Space, Add</i> 76.85		
23 21 16 00-0093	EA		3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....3,530.77	239.52	
			<i>For Work In Restricted Working Space, Add</i> 89.93		
23 21 16 00-0094	EA		4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....5,528.29	355.75	
			<i>For Work In Restricted Working Space, Add</i> 133.74		
23 21 16 00-0095	EA		6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....10,728.70	449.37	
			<i>For Work In Restricted Working Space, Add</i> 169.12		
23 21 16 00-0096	EA		8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....20,317.17	574.19	
			<i>For Work In Restricted Working Space, Add</i> 213.98		
23 21 16 00-0097	EA		10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....28,028.79	699.02	
			<i>For Work In Restricted Working Space, Add</i> 262.13		
23 21 16 00-0098	EA		12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....31,967.57	881.26	
			<i>For Work In Restricted Working Space, Add</i> 528.92		
23 21 16 00-0099	EA		14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....37,842.17	998.60	
			<i>For Work In Restricted Working Space, Add</i> 374.47		
23 21 16 00-0100	EA		16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....47,260.68	1,098.45	
			<i>For Work In Restricted Working Space, Add</i> 411.92		
23 21 16 00-0101			Bronze Body, Duplex Strainers ^(23 21 16 00-0081)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0102				Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers ^(23 21 16 00-0102)		
				<small>16 00-0101</small> Note: With brass or stainless steel basket.		
23 21 16 00-0103	EA			3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	1,413.44	35.22
				<i>For Work In Restricted Working Space, Add</i>	21.06	
23 21 16 00-0104	EA			1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	1,568.81	40.15
				<i>For Work In Restricted Working Space, Add</i>	24.11	
23 21 16 00-0105	EA			1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	2,290.70	47.20
				<i>For Work In Restricted Working Space, Add</i>	28.30	
23 21 16 00-0106	EA			1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	3,007.13	51.43
				<i>For Work In Restricted Working Space, Add</i>	30.86	
23 21 16 00-0107	EA			2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	3,883.21	62.69
				<i>For Work In Restricted Working Space, Add</i>	37.74	
23 21 16 00-0108	EA			2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer	4,771.11	80.31
				<i>For Work In Restricted Working Space, Add</i>	48.17	
23 21 16 00-0109				Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers ^(23 21 16 00-0109)		
				Note: With brass or stainless steel basket.		
23 21 16 00-0110	EA			2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer	5,462.52	187.81
				<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0111	EA			2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer	5,629.08	204.29
				<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0112	EA			3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer	7,705.67	239.52
				<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0113	EA			4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer	12,135.53	355.75
				<i>For Work In Restricted Working Space, Add</i>	133.74	
23 21 16 00-0114	EA			6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer	26,266.60	449.37
				<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0115				Cast Steel Body, Duplex Strainers ^(23 21 16 00-0081)		
23 21 16 00-0116				Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers ^(23 21 16 00-0116)		
				Note: With brass or stainless steel basket.		
23 21 16 00-0117	EA			1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	2,194.52	40.15
				<i>For Work In Restricted Working Space, Add</i>	24.11	
23 21 16 00-0118	EA			1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	2,701.78	47.20
				<i>For Work In Restricted Working Space, Add</i>	28.30	
23 21 16 00-0119	EA			1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	3,203.62	51.43
				<i>For Work In Restricted Working Space, Add</i>	30.86	
23 21 16 00-0120	EA			2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	5,411.16	62.69
				<i>For Work In Restricted Working Space, Add</i>	37.74	
23 21 16 00-0121				Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers ^(23 21 16 00-0121)		
				Note: With brass or stainless steel basket.		
23 21 16 00-0122	EA			2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	5,555.42	187.81
				<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0123	EA			2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	6,105.29	204.29
				<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0124	EA			3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	8,016.39	239.52
				<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0125	EA			4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	11,756.48	355.75
				<i>For Work In Restricted Working Space, Add</i>	133.74	
23 21 16 00-0126	EA			6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	20,013.85	449.37
				<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0127	EA			8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer	38,908.83	574.19
				<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0128				Stainless Steel Body, Duplex Strainers ^(23 21 16 00-0081)		
23 21 16 00-0129				Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers ^(23 21 16 00-0129)		
				Note: With stainless steel basket.		
23 21 16 00-0130	EA			1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer	4,462.10	40.15
				<i>For Work In Restricted Working Space, Add</i>	24.11	
23 21 16 00-0131	EA			1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer	5,636.39	47.20
				<i>For Work In Restricted Working Space, Add</i>	28.30	
23 21 16 00-0132	EA			1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer	6,797.16	51.43
				<i>For Work In Restricted Working Space, Add</i>	30.86	
23 21 16 00-0133	EA			2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer	10,877.23	62.69
				<i>For Work In Restricted Working Space, Add</i>	37.74	
23 21 16 00-0134				Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers ^(23 21 16 00-0128)		
				Note: With stainless steel basket.		
23 21 16 00-0135	EA			2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer	11,432.54	187.81
				<i>For Work In Restricted Working Space, Add</i>	70.45	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0136 EA 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,021.88 76.85	204.29
23 21 16 00-0137 EA 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	18,800.34 89.93	239.52
23 21 16 00-0138 EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	23,003.52 133.74	355.75
23 21 16 00-0139 EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	40,323.73 169.12	449.37
23 21 16 00-0140 EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	74,391.01 213.98	574.19
23 21 16 00-0141 Pressure Regulating Valve (23 21 16)		
23 21 16 00-0142 Screwed Ends, Iron Body, Water Pressure Reducing Valves (23 21 16 00-0141) Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating		
23 21 16 00-0143 EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	231.95 21.13	17.61
23 21 16 00-0144 EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	284.12 23.48	19.72
23 21 16 00-0145 EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	369.87 24.86	21.13
23 21 16 00-0146 EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	624.44 28.17	23.66
23 21 16 00-0147 EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	844.53 33.80	28.17
23 21 16 00-0148 EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,212.55 51.87	43.18
23 21 16 00-0149 EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,320.32 58.36	48.63
23 21 16 00-0150 EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,451.24 64.84	140.70
23 21 16 00-0151 Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0141) Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0152 Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0151)		
23 21 16 00-0153 EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	385.45 28.37	23.67
23 21 16 00-0154 EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	486.09 40.25	33.53
23 21 16 00-0155 EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	622.94 49.15	40.85
23 21 16 00-0156 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	827.28 57.12	49.60
23 21 16 00-0157 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,102.15 65.03	56.36
23 21 16 00-0158 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,290.44 78.71	78.71
23 21 16 00-0159 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0151) Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,896.07 71.55	190.21
23 21 16 00-0161 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,597.33 83.73	223.00
23 21 16 00-0162 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,650.66 140.55	373.86
23 21 16 00-0163 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	11,412.77 156.19	415.01
23 21 16 00-0164 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0141)		
23 21 16 00-0165 Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)		
23 21 16 00-0166 EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,080.25 25.78	17.19
23 21 16 00-0167 EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,123.50 25.78	17.19
23 21 16 00-0168 EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,266.19 32.55	21.70
23 21 16 00-0169 EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,665.80 41.42	27.61
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	3,052.16 47.76	31.84
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	3,781.96 56.22	37.47



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0172				Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0173	EA			2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	4,674.04	190.21
				<i>For Work In Restricted Working Space, Add</i>	71.55	
23 21 16 00-0174	EA			3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	5,762.25	223.00
				<i>For Work In Restricted Working Space, Add</i>	83.73	
23 21 16 00-0175	EA			4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	8,738.88	373.86
				<i>For Work In Restricted Working Space, Add</i>	140.55	
23 21 16 00-0176	EA			6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	19,074.92	415.01
				<i>For Work In Restricted Working Space, Add</i>	156.19	
23 21 16 00-0177				Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
23 21 16 00-0178	EA			1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	258.51	18.31
23 21 16 00-0179	EA			3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	317.97	20.28
23 21 16 00-0180	EA			1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	417.06	21.55
23 21 16 00-0181	EA			1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	711.67	24.51
23 21 16 00-0182	EA			1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	964.83	29.29
23 21 16 00-0183	EA			2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,383.49	44.87
23 21 16 00-0184	EA			2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,498.94	48.88
23 21 16 00-0185	EA			3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,654.33	56.28
23 21 16 00-0186				Screwed Ends, Bronze Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
				Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187	EA			1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	191.38	17.61
23 21 16 00-0188	EA			3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	210.55	19.72
23 21 16 00-0189	EA			1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	257.72	21.83
23 21 16 00-0190	EA			1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	582.98	23.66
23 21 16 00-0191	EA			1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	634.83	28.17
23 21 16 00-0192	EA			2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	996.42	43.18
23 21 16 00-0193				Dual Unit Reducing And Relief Valve <small>(23 21 16)</small>		
23 21 16 00-0194	EA			1/2" Dual Unit Reducing And Relief Valve.....	217.79	42.98
23 21 16 00-0195				Safety Relief Valve <small>(23 21 16)</small>		
				Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196				Threaded Inlet, Bronze Body Safety Valves <small>(23 21 16 00-0196)</small>		
				Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197	EA			1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve.....	91.36	17.61
23 21 16 00-0198	EA			3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve.....	121.55	19.37
23 21 16 00-0199	EA			1" x 1" Threaded Inlet, Bronze Body Safety Valve.....	171.19	23.59
23 21 16 00-0200	EA			1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve.....	215.88	25.00
23 21 16 00-0201	EA			1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve.....	296.28	33.45
23 21 16 00-0202	EA			2" x 2" Threaded Inlet, Bronze Body Safety Valve.....	392.02	39.43
23 21 16 00-0203	EA			2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve.....	449.09	49.30
23 21 16 00-0204				Threaded, Bronze Body, Temperature And Pressure Relief Valves <small>(23 21 16)</small>		
23 21 16 00-0205	EA			1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	97.43	35.91
				<i>For Cast Iron Body, Add</i>	48.44	
23 21 16 00-0206	EA			3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	124.41	43.10
				<i>For Cast Iron Body, Add</i>	67.48	
23 21 16 00-0207	EA			1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	179.88	57.46
				<i>For Cast Iron Body, Add</i>	107.48	
23 21 16 00-0208	EA			1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	283.34	61.55
				<i>For Cast Iron Body, Add</i>	228.41	
23 21 16 00-0209	EA			1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	462.19	69.01
				<i>For Cast Iron Body, Add</i>	436.95	
23 21 16 00-0210	EA			2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	542.74	99.20
				<i>For Cast Iron Body, Add</i>	475.80	
23 21 16 00-0211				Horizontal Steel Expansion Tanks <small>(23 21 16)</small>		
				Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212	EA			10 Gallon Horizontal Steel Expansion Tank.....	628.53	140.89
23 21 16 00-0213	EA			15 Gallon Horizontal Steel Expansion Tank.....	872.35	176.11
23 21 16 00-0214	EA			30 Gallon Horizontal Steel Expansion Tank.....	1,129.20	211.34
23 21 16 00-0215	EA			40 Gallon Horizontal Steel Expansion Tank.....	1,302.20	246.56
23 21 16 00-0216	EA			60 Gallon Horizontal Steel Expansion Tank.....	1,473.43	249.64
23 21 16 00-0217				Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks <small>(23 21 16)</small>		
				Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0218	EA			7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,563.51	105.67
23 21 16 00-0219	EA			10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,638.02	123.27
23 21 16 00-0220	EA			21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,424.45	140.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0221 EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,529.01	158.50
23 21 16 00-0222 EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,412.52	176.11
23 21 16 00-0223 EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,602.61	193.72
23 21 16 00-0224 EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,275.77	211.34
23 21 16 00-0225 EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,576.81	228.94
23 21 16 00-0226 EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,041.96	246.56
23 21 16 00-0227 EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,195.60	281.78
23 21 16 00-0228 EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,502.64	317.00
23 21 16 00-0229 EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,451.42	352.23
23 21 16 00-0230 EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	8,655.56	422.67
23 21 16 00-0231 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX) <i>(23 21 16)</i> Note: ASME. Precharged with working pressure 125 psi		
23 21 16 00-0232 EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,776.16	105.67
23 21 16 00-0233 EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,839.11	123.27
23 21 16 00-0234 EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,618.61	140.89
23 21 16 00-0235 EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,799.44	158.50
23 21 16 00-0236 EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,548.90	176.11
23 21 16 00-0237 EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,736.67	193.72
23 21 16 00-0238 EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,546.21	211.34
23 21 16 00-0239 EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,914.28	228.94
23 21 16 00-0240 EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,432.58	246.56
23 21 16 00-0241 EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,579.29	281.78
23 21 16 00-0242 EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,851.67	317.00
23 21 16 00-0243 EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,943.74	352.23
23 21 16 00-0244 EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,157.13	422.67
23 21 16 00-0245 Diaphragm Type (Residential Style) Steel Expansion Tanks <i>(23 21 16)</i>		
23 21 16 00-0246 EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	91.79	12.97
23 21 16 00-0247 EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	128.10	12.97
23 21 16 00-0248 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks <i>(23 21 16)</i>		
23 21 16 00-0249 EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,215.96	422.81
23 21 16 00-0250 EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,253.64	422.81
23 21 16 00-0251 EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,291.31	422.81
23 21 16 00-0252 EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,389.26	422.81
23 21 16 00-0253 EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,704.45	563.41
23 21 16 00-0254 EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,930.28	563.70
23 21 16 00-0255 EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,975.03	563.70
23 21 16 00-0256 EA 87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,019.78	704.44
23 21 16 00-0257 EA 120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,560.21	704.44
23 21 16 00-0258 EA 187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	6,354.52	845.06
23 21 16 00-0259 EA 264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,043.38	
23 21 16 00-0260 ASME Construction Compression Tanks <i>(23 21 16)</i> Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.		
23 21 16 00-0261 EA 15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	974.26	247.97
<i>For Galvanized Steel Tanks, Add</i>	299.28	
23 21 16 00-0262 EA 24 Gallon, 13" x 51" ASME Construction Compression Tank.....	994.82	255.01
<i>For Galvanized Steel Tanks, Add</i>	303.69	
23 21 16 00-0263 EA 30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,077.91	263.47
<i>For Galvanized Steel Tanks, Add</i>	338.90	
23 21 16 00-0264 EA 40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,172.61	273.33
<i>For Galvanized Steel Tanks, Add</i>	378.50	
23 21 16 00-0265 EA 60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,352.19	288.82
<i>For Galvanized Steel Tanks, Add</i>	457.72	
23 21 16 00-0266 EA 80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,405.13	300.10
<i>For Galvanized Steel Tanks, Add</i>	475.32	
23 21 16 00-0267 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	1,717.87	326.87
<i>For Galvanized Steel Tanks, Add</i>	611.76	
23 21 16 00-0268 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	1,869.59	350.82
<i>For Galvanized Steel Tanks, Add</i>	668.97	
23 21 16 00-0269 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	2,306.39	395.90
<i>For Galvanized Steel Tanks, Add</i>	853.43	
23 21 16 00-0270 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank.....	2,905.44	453.66
<i>For Galvanized Steel Tanks, Add</i>	1,109.09	
23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank.....	3,460.55	502.97
<i>For Galvanized Steel Tanks, Add</i>	1,349.50	
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank.....	3,783.01	546.65
<i>For Galvanized Steel Tanks, Add</i>	1,477.13	
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank.....	4,734.63	600.19
<i>For Galvanized Steel Tanks, Add</i>	1,912.84	
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank.....	4,895.69	641.05
<i>For Galvanized Steel Tanks, Add</i>	1,962.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,241.86 2,599.12	688.95
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	10,231.36 4,503.12	808.70
23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	211.73	39.44
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings	649.47	46.50
23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	77.44	22.73
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	94.57	30.63
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	126.13	37.08
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	183.23	46.97
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	77.44	22.73
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	94.57	30.63
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	126.13	37.08
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	183.23	46.97
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	93.53	17.61
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	137.61	24.66
23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	133.19	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	165.89	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	165.84	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	189.22	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	431.83	
23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,323.83	300.10
<i>For 300 PSIG, Add</i>	130.40	
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	1,622.64	343.77
<i>For 300 PSIG, Add</i>	165.12	
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	2,423.27	404.36
<i>For 300 PSIG, Add</i>	271.61	
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F).....	2,587.96	428.12
<i>For 300 PSIG, Add</i>	290.90	
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F).....	3,349.46	570.83
<i>For 300 PSIG, Add</i>	372.69	
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F).....	4,201.83	679.05
<i>For 300 PSIG, Add</i>	476.08	
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F).....	4,966.47	768.91
<i>For 300 PSIG, Add</i>	570.22	
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F).....	7,046.19	922.45
<i>For 300 PSIG, Add</i>	847.22	
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F).....	10,652.48	1,048.52
<i>For 300 PSIG, Add</i>	1,359.57	
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F).....	14,339.26	1,356.84
<i>For 300 PSIG, Add</i>	1,842.50	
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	29,258.18	1,647.68
<i>For 300 PSIG, Add</i>	4,014.26	
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	36,090.70	1,977.21
<i>For 300 PSIG, Add</i>	4,964.24	
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	46,947.13	2,306.75
<i>For 300 PSIG, Add</i>	6,517.81	
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	54,897.27	2,636.29
<i>For 300 PSIG, Add</i>	7,635.44	
23 21 16 00-0312 Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	1,154.08	300.10
<i>For 300 PSIG, Add</i>	104.94	
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N).....	1,437.46	343.77
<i>For 300 PSIG, Add</i>	137.35	
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	2,376.98	404.36
<i>For 300 PSIG, Add</i>	264.66	
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F).....	2,181.58	428.12
<i>For 300 PSIG, Add</i>	229.94	
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	2,922.51	570.83
<i>For 300 PSIG, Add</i>	308.64	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	3,754.30	679.05
<i>For 300 PSIG, Add</i>	408.95	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	4,359.47	768.91
<i>For 300 PSIG, Add</i>	479.17	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0320	EA		8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F).....	5,749.89	922.45
			<i>For 300 PSIG, Add</i>	652.78	
23 21 16 00-0321	EA		10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F).....	7,879.84	1,048.52
			<i>For 300 PSIG, Add</i>	943.67	
23 21 16 00-0322	EA		12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F).....	12,009.65	1,356.84
			<i>For 300 PSIG, Add</i>	1,493.06	
23 21 16 00-0323	EA		14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F).....	20,103.36	1,647.68
			<i>For 300 PSIG, Add</i>	2,641.03	
23 21 16 00-0324	EA		16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F).....	25,411.85	1,977.21
			<i>For 300 PSIG, Add</i>	3,362.41	
23 21 16 00-0325	EA		18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F).....	33,802.29	2,306.75
			<i>For 300 PSIG, Add</i>	4,546.08	
23 21 16 00-0326	EA		20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F).....	45,958.36	2,636.29
			<i>For 300 PSIG, Add</i>	6,294.60	
23 21 16 00-0327	EA		22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F).....	56,144.83	2,965.83
			<i>For 300 PSIG, Add</i>	7,747.67	
23 21 16 00-0328	EA		24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F).....	66,331.30	3,295.35
			<i>For 300 PSIG, Add</i>	9,200.75	
23 21 16 00-0329			Grooved, With Strainer, Vortex Air Separators (2321 16)		
23 21 16 00-0330	EA		3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	2,252.48	342.49
23 21 16 00-0331	EA		4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	3,176.05	456.38
23 21 16 00-0332	EA		5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	3,996.21	542.73
23 21 16 00-0333	EA		6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	4,733.38	615.14
23 21 16 00-0334	EA		8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	6,756.29	738.16
23 21 16 00-0335	EA		10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	10,735.94	838.82
23 21 16 00-0336	EA		12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	16,245.92	1,085.60
23 21 16 00-0337			Grooved Vortex Air Separators (2321 16)		
			Note: Without system strainer.		
23 21 16 00-0338	EA		3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,830.67	342.49
23 21 16 00-0339	EA		4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	2,749.10	456.38
23 21 16 00-0340	EA		5" Grooved, 500 GPM Vortex Air Separator (Rolairtrol RL-5G).....	3,548.68	542.73
23 21 16 00-0341	EA		6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	4,126.38	615.14
23 21 16 00-0342	EA		8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	5,470.28	738.16
23 21 16 00-0343	EA		10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	7,922.15	838.82
23 21 16 00-0344	EA		12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	13,000.99	1,085.60
23 21 16 00-0345			Removable Head, Air Eliminator And Dirt Separator (2321 16)		
			Note: Spirovent VDN.		
23 21 16 00-0346	EA		2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,554.05	300.10
23 21 16 00-0347	EA		2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,856.46	343.77
23 21 16 00-0348	EA		3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,126.34	404.36
23 21 16 00-0349	EA		4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,924.43	619.91
23 21 16 00-0350	EA		5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	8,596.98	766.44
23 21 16 00-0351	EA		6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	11,015.41	867.88
23 21 16 00-0352	EA		8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	17,072.04	195.84
23 21 16 00-0353	EA		10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	25,061.00	1,183.48
23 21 16 00-0354	EA		12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	32,392.00	1,531.47
23 21 16 00-0355			Swivel Joints (2321 16)		
23 21 16 00-0356			Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (2321 16 00-0355)		
			Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357	EA		1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	333.50	37.05
23 21 16 00-0358	EA		1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	479.72	54.24
23 21 16 00-0359	EA		2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	665.93	63.40
23 21 16 00-0360	EA		3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,000.39	108.49
23 21 16 00-0361	EA		4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,260.53	123.27
			<i>For Stainless Steel, Add</i>	1,520.96	
23 21 16 00-0362	EA		2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	943.46	187.81
			<i>For Stainless Steel, Add</i>	1,062.96	
23 21 16 00-0363	EA		3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,270.08	149.83
23 21 16 00-0364	EA		4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,650.77	401.53
23 21 16 00-0365	EA		6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	2,981.32	507.20
23 21 16 00-0366			Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) (2321 16 00-0355)		
			Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0367	EA		1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	418.80	37.05
			<i>For Stainless Steel, Add</i>	516.98	
23 21 16 00-0368	EA		1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	520.01	54.24
			<i>For Stainless Steel, Add</i>	617.45	
23 21 16 00-0369	EA		2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	695.82	63.40
			<i>For Stainless Steel, Add</i>	851.61	
23 21 16 00-0370	EA		3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,121.26	108.49
			<i>For Stainless Steel, Add</i>	1,356.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,457.95 1,817.09	123.27
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	970.78 1,103.94	187.81
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,426.54 1,690.17	149.83
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,831.41 1,992.35	401.53
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	3,106.06 3,704.67	507.20
23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) ^{(23 21}		
<small>^{16 00-0355)} Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.</small>		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	489.20 622.58	37.05
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	573.73 698.03	54.24
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	830.85 1,054.16	63.40
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,283.76 1,600.52	108.49
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,511.67 1,897.67	123.27
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,105.08 1,305.39	187.81
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,593.07 1,939.97	149.83
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	2,003.31 2,250.20	401.53
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	3,475.38 4,258.65	507.20
23 21 16 00-0386 Basket Strainers ^(23 21 16)		
23 21 16 00-0387 Bronze Body Basket Strainers ^(23 21 16 00-0386)		
23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers ^(23 21 16 00-0387)		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	278.09 16.77	28.18
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	328.53 19.71	33.11
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	381.78 23.48	39.44
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	472.09 26.18	43.68
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	555.95 29.56	49.31
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	817.12 33.85	56.36
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,153.11 45.34	75.38
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,605.17 48.09	80.31
23 21 16 00-0397 Flanged, Bronze Body Basket Strainers ^(23 21 16 00-0387)		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,302.14 70.45	187.81
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,926.12 76.85	204.29
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,187.54 89.93	239.52
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,697.89 150.95	401.54
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,880.53 169.12	449.37
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,439.31 213.98	574.19
23 21 16 00-0404 Iron Body Basket Strainers ^(23 21 16 00-0386)		
23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers ^(23 21 16 00-0404)		
23 21 16 00-0406 EA 1/2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	365.10 16.77	28.18
23 21 16 00-0407 EA 3/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	411.76 19.71	33.11
23 21 16 00-0408 EA 1" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	486.75 23.48	39.44
23 21 16 00-0409 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	634.74 26.18	43.68

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0410	EA		1-1/2" Screwed Ends, Iron Body Basket Strainer.....	697.06	49.31
			<i>For Work In Restricted Working Space, Add</i>	29.56	
23 21 16 00-0411	EA		2" Screwed Ends, Iron Body Basket Strainer.....	827.66	56.36
			<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0412	EA		2-1/2" Screwed Ends, Iron Body Basket Strainer.....	1,172.31	75.38
			<i>For Work In Restricted Working Space, Add</i>	45.34	
23 21 16 00-0413	EA		3" Screwed Ends, Iron Body Basket Strainer.....	1,323.30	80.31
			<i>For Work In Restricted Working Space, Add</i>	48.09	
23 21 16 00-0414			Flanged, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0415	EA		2" Flanged, Iron Body Basket Strainer.....	860.38	187.81
			<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0416	EA		2-1/2" Flanged, Iron Body Basket Strainer.....	1,099.31	204.29
			<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0417	EA		3" Flanged, Iron Body Basket Strainer.....	1,197.30	239.52
			<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0418	EA		4" Flanged, Iron Body Basket Strainer.....	1,854.03	401.54
			<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0419	EA		6" Flanged, Iron Body Basket Strainer.....	3,192.89	449.37
			<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0420	EA		8" Flanged, Iron Body Basket Strainer.....	5,563.64	574.19
			<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0421	EA		10" Flanged, Iron Body Basket Strainer.....	8,171.98	699.02
			<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0422	EA		12" Flanged, Iron Body Basket Strainer.....	10,420.47	881.26
			<i>For Work In Restricted Working Space, Add</i>	528.70	
23 21 16 00-0423	EA		14" Flanged, Iron Body Basket Strainer.....	12,172.89	998.60
			<i>For Work In Restricted Working Space, Add</i>	374.47	
23 21 16 00-0424	EA		16" Flanged, Iron Body Basket Strainer.....	12,796.35	1,098.45
			<i>For Work In Restricted Working Space, Add</i>	411.92	
23 21 16 00-0425			Cast Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0426			Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0427	EA		1" Screwed Ends, Cast Steel Body Basket Strainer.....	786.40	39.44
			<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0428	EA		1-1/4" Screwed Ends, Cast Steel Body Basket Strainer.....	1,032.43	43.68
			<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 16 00-0429	EA		1-1/2" Screwed Ends, Cast Steel Body Basket Strainer.....	1,163.68	49.31
			<i>For Work In Restricted Working Space, Add</i>	29.55	
23 21 16 00-0430	EA		2" Screwed Ends, Cast Steel Body Basket Strainer.....	1,628.07	56.36
			<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0431	EA		2-1/2" Screwed Ends, Cast Steel Body Basket Strainer.....	2,281.46	75.38
			<i>For Work In Restricted Working Space, Add</i>	45.33	
23 21 16 00-0432	EA		3" Screwed Ends, Cast Steel Body Basket Strainer.....	2,950.78	80.31
			<i>For Work In Restricted Working Space, Add</i>	48.10	
23 21 16 00-0433			Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0434	EA		2" Flanged, Cast Steel Body Basket Strainer.....	2,440.19	187.81
			<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0435	EA		2-1/2" Flanged, Cast Steel Body Basket Strainer.....	3,481.70	204.29
			<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0436	EA		3" Flanged, Cast Steel Body Basket Strainer.....	3,825.35	239.52
			<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0437	EA		4" Flanged, Cast Steel Body Basket Strainer.....	5,454.00	401.54
			<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0438	EA		6" Flanged, Cast Steel Body Basket Strainer.....	9,490.21	449.37
			<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0439	EA		8" Flanged, Cast Steel Body Basket Strainer.....	15,340.72	574.19
			<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0440			Stainless Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0441			Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0442	EA		1" Screwed Ends, Stainless Steel Body Basket Strainer.....	481.33	39.44
			<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0443	EA		1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer.....	683.87	43.68
			<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 16 00-0444	EA		1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer.....	709.07	49.31
			<i>For Work In Restricted Working Space, Add</i>	29.55	
23 21 16 00-0445	EA		2" Screwed Ends, Stainless Steel Body Basket Strainer.....	1,036.65	56.36
			<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0446	EA		2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer.....	1,462.02	75.38
			<i>For Work In Restricted Working Space, Add</i>	45.33	
23 21 16 00-0447	EA		3" Screwed Ends, Stainless Steel Body Basket Strainer.....	2,045.89	80.31
			<i>For Work In Restricted Working Space, Add</i>	48.10	
23 21 16 00-0448			Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,609.59 70.45	187.81
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,397.13 76.85	204.29
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,718.08 89.93	239.52
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,593.58 150.95	401.54
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,948.73 169.12	449.37
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	11,966.86 213.98	574.19
23 21 16 00-0455 Air Vents <small>(23 21 16)</small>		
23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents <small>(23 21 16 00-0455)</small> Note: With guided free floating lever.		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent	336.52	40.85
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent	413.15	54.24
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent	919.43	56.36
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,364.46	87.07
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	2,257.98	93.69
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent	2,598.02	123.56
23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents <small>(23 21 16 00-0455)</small> Note: With guided free floating lever.		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,594.56	47.20
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,994.97	54.24
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,374.45	56.36
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,891.87	87.35
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	4,490.11	93.69
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	6,590.80	123.27
23 21 16 00-0470 Automatic Air Vent <small>(23 21 16 00-0455)</small>		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	235.43	54.24
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	255.90	56.36
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	366.89	87.07
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	444.77	93.69
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	555.88	100.96
23 21 16 00-0476 Manual Air Vent <small>(23 21 16 00-0455)</small>		
23 21 16 00-0477 EA Manual Air Vent	102.86	50.86
23 21 16 00-0478 Air Release Valves <small>(23 21 16 00-0455)</small>		
23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) <small>(23 21 16 00-0478)</small> Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	186.73	21.14
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	192.37	23.95
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	203.63	29.59
23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) <small>(23 21 16 00-0478)</small> Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....	734.23	29.59
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	889.35	51.43
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	1,170.26	119.90
23 21 16 00-0487 Cast Iron, Air/Vacuum Valves <small>(23 21 16 00-0478)</small> Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0488 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141).....	358.70	21.14
23 21 16 00-0489 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142).....	444.39	29.59
23 21 16 00-0490 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144).....	767.82	51.43
23 21 16 00-0491 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146).....	1,115.23	119.90
23 21 16 00-0492 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152).....	1,748.92	201.27
23 21 16 00-0493 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153).....	2,645.53	254.51
23 21 16 00-0494 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0478)</small> Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0495 EA 1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	637.01	29.59
23 21 16 00-0496 EA 2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	981.07	51.43
23 21 16 00-0497 EA 3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....	1,791.67	119.90

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0498 EA 4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,338.22	201.27
23 21 23 Hydronic Pumps (23 21)		
23 21 23 13 In-Line Centrifugal Hydronic Pumps (23 21 23)		
23 21 23 13-0001 Cast Iron Single Stage In-Line Centrifugal Pump (23 21 23 13)		
Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002 EA 3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,205.62	376.23
For Mechanical Seal, Add	326.20	
For Cast Steel Case, Add	733.95	
23 21 23 13-0003 EA 5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,736.80	455.36
For Mechanical Seal, Add	349.69	
For Cast Steel Case, Add	786.81	
23 21 23 13-0004 EA 7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	6,647.96	540.99
For Mechanical Seal, Add	402.10	
For Cast Steel Case, Add	904.73	
23 21 23 13-0005 EA 10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	7,582.15	721.32
For Mechanical Seal, Add	433.59	
For Cast Steel Case, Add	975.59	
23 21 23 13-0006 EA 15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump	8,644.95	786.18
For Mechanical Seal, Add	502.89	
For Cast Steel Case, Add	1,131.51	
23 21 23 13-0007 EA 30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	12,556.90	865.32
For Mechanical Seal, Add	796.98	
For Cast Steel Case, Add	1,793.20	
23 21 23 13-0008 EA 40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	14,831.89	1,080.68
For Mechanical Seal, Add	927.08	
For Cast Steel Case, Add	2,085.94	
23 21 23 13-0009 EA 50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	20,316.19	1,235.06
For Mechanical Seal, Add	1,328.76	
For Cast Steel Case, Add	2,989.71	
23 21 23 13-0010 EA 75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	25,513.89	1,294.43
For Mechanical Seal, Add	1,730.44	
For Cast Steel Case, Add	3,893.48	
23 21 23 13-0011 EA 100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	28,155.13	1,663.91
For Mechanical Seal, Add	1,852.97	
For Cast Steel Case, Add	4,169.19	
23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump (23 21 23 13)		
Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.		
23 21 23 13-0013 EA 1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,049.46	216.01
23 21 23 13-0014 EA 3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,498.44	246.89
23 21 23 13-0015 EA 1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,809.79	276.46
23 21 23 13-0016 EA 1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,015.46	300.59
23 21 23 13-0017 EA 2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,190.86	329.14
23 21 23 13-0018 EA 3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,361.60	363.77
23 21 23 13-0019 EA 5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,144.57	432.01
23 21 23 13-0020 EA 7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,177.74	531.78
23 21 23 13-0021 EA 10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,133.99	576.01
23 21 23 13-0022 EA 15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	10,614.40	609.87
23 21 23 13-0023 EA 20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	13,508.20	648.02
23 21 23 13-0024 EA 25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,240.12	669.69
23 21 23 13-0025 EA 30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,972.04	691.22
23 21 23 13-0026 EA 40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	17,699.58	740.65
23 21 23 13-0027 EA 50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	18,932.10	766.03
23 21 23 13-0028 EA 60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	21,110.64	1,106.42
23 21 23 13-0029 EA 75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	25,589.38	2,212.86
23 21 23 13-0030 EA 100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	29,497.73	2,655.42
23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)		
See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002 EA 5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T)	6,186.22	411.26
23 21 23 16-0003 EA 7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T)	6,920.63	411.77
23 21 23 16-0004 EA 10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T)	9,105.64	540.99
23 21 23 16-0005 EA 15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T)	10,023.64	665.53
23 21 23 16-0006 EA 15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T)	11,170.46	665.53
23 21 23 16-0007 EA 20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T)	10,911.57	721.32
23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T)	11,563.58	721.32
23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T)	12,628.06	756.35
23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T)	14,116.66	961.33
23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T)	14,979.57	1,080.68
23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T)	22,920.56	2,326.24
23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T)	32,966.63	2,790.98
23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS)	37,533.96	3,488.73



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 21 23 16-0015		Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump ^(23 21 23 16) Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
	EA	1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	4,618.64	302.27
		<i>For 300 LB Flanges, Add</i>	1,018.39	
	EA	2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	5,729.67	324.34
		<i>For 300 LB Flanges, Add</i>	1,310.79	
	EA	3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	7,157.28	346.39
		<i>For 300 LB Flanges, Add</i>	1,645.17	
	EA	5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	8,399.38	411.26
		<i>For 300 LB Flanges, Add</i>	1,914.51	
	EA	7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	8,827.06	411.77
		<i>For 300 LB Flanges, Add</i>	2,012.16	
	EA	10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,343.77	540.99
		<i>For 300 LB Flanges, Add</i>	2,092.69	
	EA	10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,536.19	540.99
		<i>For 300 LB Flanges, Add</i>	2,140.80	
	EA	10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,962.41	540.99
		<i>For 300 LB Flanges, Add</i>	2,247.35	
	EA	15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,615.39	665.53
		<i>For 300 LB Flanges, Add</i>	2,604.46	
	EA	17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,817.51	665.01
		<i>For 300 LB Flanges, Add</i>	2,642.92	
	EA	20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	12,445.13	721.32
		<i>For 300 LB Flanges, Add</i>	2,786.95	
	EA	25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	13,639.58	756.35
		<i>For 300 LB Flanges, Add</i>	3,059.64	
	EA	30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	15,209.19	961.33
		<i>For 300 LB Flanges, Add</i>	3,369.85	
	EA	40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	17,241.36	1,080.68
		<i>For 300 LB Flanges, Add</i>	3,823.84	
	EA	60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	27,479.75	2,326.24
		<i>For 300 LB Flanges, Add</i>	5,748.56	
	EA	75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	32,713.25	2,790.98
		<i>For 300 LB Flanges, Add</i>	6,832.66	
	EA	100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	40,000.60	3,488.73
		<i>For 300 LB Flanges, Add</i>	8,318.08	

23 21 23 16-0033		Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump ^(23 21 23 16) Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
	EA	1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,453.27	302.27
		<i>For 300 LB Flanges, Add</i>	977.04	
	EA	2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,589.99	324.34
		<i>For 300 LB Flanges, Add</i>	1,001.53	
	EA	3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,726.87	346.39
		<i>For 300 LB Flanges, Add</i>	1,026.04	
	EA	5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,105.36	354.17
		<i>For 300 LB Flanges, Add</i>	1,116.83	
	EA	7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	8,101.20	411.26
		<i>For 300 LB Flanges, Add</i>	1,839.97	
	EA	10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	9,770.80	540.99
		<i>For 300 LB Flanges, Add</i>	2,232.37	
	EA	15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	11,007.35	583.80
		<i>For 300 LB Flanges, Add</i>	2,508.59	
	EA	20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	11,768.71	648.66
		<i>For 300 LB Flanges, Add</i>	2,642.79	
	EA	25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	12,978.35	647.84
		<i>For 300 LB Flanges, Add</i>	2,953.33	
	EA	40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	14,686.88	832.57
		<i>For 300 LB Flanges, Add</i>	3,297.25	
	EA	50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	18,391.53	930.74
		<i>For 300 LB Flanges, Add</i>	4,149.33	
	EA	75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	23,443.90	1,162.50
		<i>For 300 LB Flanges, Add</i>	5,300.29	
	EA	3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....	29,401.45	1,395.49
		<i>For 300 LB Flanges, Add</i>	6,677.53	
	EA	150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	34,719.06	1,549.99
		<i>For 300 LB Flanges, Add</i>	7,932.18	
	EA	200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	40,212.13	1,993.56
		<i>For 300 LB Flanges, Add</i>	9,091.85	

23 21 23 16-0049		Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump ^(23 21 23 16) Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
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23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0050 EA 40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case <i>For 300 LB Flanges, Add</i>	26,596.14 6,349.65	665.53
23 21 23 16-0051 EA 50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case <i>For 300 LB Flanges, Add</i>	28,714.87 6,854.38	721.32
23 21 23 16-0052 EA 75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case <i>For 300 LB Flanges, Add</i>	38,197.40 9,130.27	915.24
23 21 23 16-0053 EA 100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case <i>For 300 LB Flanges, Add</i>	44,841.97 10,634.26	1,257.61
23 21 23 16-0054 EA 200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case <i>For 300 LB Flanges, Add</i>	62,132.18 14,764.73	1,676.81
23 21 23 16-0055 Cast Iron Close Coupling Pumps (23 21 23 16)		
23 21 23 16-0056 Foot Mounted Cast Iron Close Coupled Pumps (23 21 23 16-0055)		
23 21 23 16-0057 EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	5,551.29	389.20
23 21 23 16-0058 EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	6,020.33	389.20
23 21 23 16-0059 EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	6,680.51	410.83
23 21 23 16-0060 EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	7,095.43	410.83
23 21 23 16-0061 EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	8,129.30	432.01
23 21 23 16-0062 EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	9,639.59	520.11
23 21 23 16-0063 EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	12,627.67	640.73
23 21 23 16-0064 EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	13,522.89	693.47
23 21 23 16-0065 EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	15,627.27	748.94
23 21 23 16-0066 Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt (23 21 23 16)		
23 21 23 16-0067 EA 1/3 HP, Centrifugal Pump, Polypropylene Body	1,422.62	201.05
23 21 23 16-0068 EA 1/2 HP, Centrifugal Pump, Polypropylene Body	1,517.06	213.17
23 21 23 16-0069 EA 3/4 HP, Centrifugal Pump, Polypropylene Body	1,758.95	226.97
23 21 23 23 Vertical-Turbine Hydronic Pumps (23 21 23)		
See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 23-0001 Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps (23 21 23 23)		
Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002 EA 2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	9,503.80 817.96 322.49 227.45	961.33
23 21 23 23-0003 EA 3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	10,780.27 920.55 373.09 265.28	1,080.68
23 21 23 23-0004 EA 15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	12,701.17 1,062.84 441.30 314.29	930.74
23 21 23 23-0005 EA 25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	14,800.39 1,253.04 523.01 375.00	1,074.03
23 21 23 23-0006 EA 50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	18,043.65 1,518.25 646.99 466.55	1,162.50
23 21 23 23-0007 EA 100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	23,570.31 1,975.34 853.10 617.40	1,395.49
23 21 23 23-0008 EA 150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	28,298.28 2,376.00 1,019.79 736.81	1,744.36
23 21 23 23-0009 EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	44,381.86 3,678.71 1,647.12 1,203.30	1,993.56
23 21 23 23-0010 EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage..... <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	57,856.75 4,778.06 2,164.75 1,586.19	2,326.24



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	23	23-0011	EA	300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage <i>For Each Extra Column Assembly <60", Add</i> <i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i> <i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	80,449.34 6,615.37 3,038.55 2,234.06	2,790.98
23 21 29 Automatic Condensate Pump Units (23 21)						
23 21	29	00-0001		Automatic Shallow Pan Condensate Pump (23 21 29)		
23 21	29	00-0002	EA	1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS)	249.84	42.16
23 21	29	00-0003	EA	1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS)	270.54	42.16
23 21	29	00-0004	EA	1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS)	419.76	48.65
23 21	29	00-0005		Automatic Condensate Pump With Tank (23 21 29)		
23 21	29	00-0006	EA	1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL)	138.17	32.43
23 21	29	00-0007	EA	1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20)	147.01	32.43
23 21	29	00-0008	EA	1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS)	243.07	42.16
23 21	29	00-0009	EA	1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS)	262.81	48.65
23 21	29	00-0010	EA	1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS) Condensate Pump	480.91	55.14
23 22				Steam and Condensate Piping and Pumps (23 20)		
23 22	16			Steam and Condensate Heating Piping Specialties (23 22)		
23 22	16	00-0001		Steam Temperature Regulator, Iron Body (23 22 16)		
23 22	16	00-0002		Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001) Note: Up to 150 PSI.		
23 22	16	00-0003	EA	1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,289.68	20.28
23 22	16	00-0004	EA	3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,359.71	27.32
23 22	16	00-0005	EA	1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,803.30	33.66
23 22	16	00-0006	EA	1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,993.57	42.54
23 22	16	00-0007	EA	1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,048.10	48.87
23 22	16	00-0008	EA	2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,418.01	53.17
23 22	16	00-0009	EA	2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,092.07	97.39
23 22	16	00-0010	EA	3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,444.21	106.20
23 22	16	00-0011	EA	4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,691.90	248.59
23 22	16	00-0012	EA	6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,996.25	291.77
23 22	16	00-0013		Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22	16	00-0014	EA	1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,907.40	20.28
23 22	16	00-0015	EA	3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,978.38	27.32
23 22	16	00-0016	EA	1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,068.96	33.66
23 22	16	00-0017	EA	1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,477.58	42.54
23 22	16	00-0018	EA	1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,655.85	48.87
23 22	16	00-0019	EA	2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,014.82	53.17
23 22	16	00-0020	EA	2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,627.82	97.39
23 22	16	00-0021	EA	3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,335.16	106.20
23 22	16	00-0022	EA	4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,736.37	248.59
23 22	16	00-0023	EA	6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,520.24	291.77
23 22	16	00-0024		Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22	16	00-0025	EA	1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,596.14	20.28
23 22	16	00-0026	EA	3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,637.06	27.32
23 22	16	00-0027	EA	1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,887.78	33.66
23 22	16	00-0028	EA	1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,147.20	42.54
23 22	16	00-0029	EA	1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,263.60	48.87
23 22	16	00-0030	EA	2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,680.82	53.17
23 22	16	00-0031	EA	2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,811.34	97.39
23 22	16	00-0032	EA	3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,670.41	106.20
23 22	16	00-0033	EA	4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,043.73	248.59
23 22	16	00-0034	EA	6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	8,408.84	291.77
23 22	16	00-0035		Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22	16	00-0036	EA	1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,323.98	20.28
23 22	16	00-0037	EA	3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,361.27	27.32
23 22	16	00-0038	EA	1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,652.01	33.66
23 22	16	00-0039	EA	1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,809.51	42.54
23 22	16	00-0040	EA	1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,958.68	48.87
23 22	16	00-0041	EA	2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,310.40	53.17

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0042 EA 2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,175.26	97.39
23 22 16 00-0043 EA 3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,903.04	106.20
23 22 16 00-0044 EA 4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,276.35	248.59
23 22 16 00-0045 EA 6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,641.47	291.77
23 22 16 00-0046 High Temperature Safety Relief Valve (23 22 16)		
Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047 Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)		
Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048 Threaded (23 22 16 00-0047)		
23 22 16 00-0049 EA 3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	494.49	21.13
23 22 16 00-0050 EA 1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	519.99	25.00
23 22 16 00-0051 EA 1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	577.12	31.69
23 22 16 00-0052 EA 1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	708.50	35.21
23 22 16 00-0053 EA 2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	905.55	43.31
23 22 16 00-0054 EA 2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,389.76	49.30
23 22 16 00-0055 EA 3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,508.57	56.69
23 22 16 00-0056 Flanged (23 22 16 00-0047)		
23 22 16 00-0057 EA 1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,395.24	147.88
23 22 16 00-0058 EA 2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	3,965.81	222.30
23 22 16 00-0059 EA 2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	4,370.67	204.67
23 22 16 00-0060 EA 2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,320.95	295.61
23 22 16 00-0061 EA 3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,654.20	220.45
23 22 16 00-0062 EA 3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	6,652.72	295.61
23 22 16 00-0063 EA 4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	11,113.48	419.50
23 22 16 00-0064 EA 6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	22,010.12	468.50
23 22 16 00-0065 Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)		
Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	535.03	19.37
23 22 16 00-0067 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	549.11	21.13
23 22 16 00-0068 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	641.49	23.24
23 22 16 00-0069 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	707.84	25.00
23 22 16 00-0070 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam.....	818.35	28.17
23 22 16 00-0071 EA 1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	825.24	31.69
23 22 16 00-0072 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	926.38	33.45
23 22 16 00-0073 EA 1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,008.53	35.21
23 22 16 00-0074 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,392.61	39.43
23 22 16 00-0075 EA 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,522.13	43.31
23 22 16 00-0076 EA 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	1,814.25	49.30
23 22 16 00-0077 Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)		
Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	260.08	19.37
23 22 16 00-0079 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	295.62	21.13
23 22 16 00-0080 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Water	404.64	23.24
23 22 16 00-0081 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	445.07	25.00
23 22 16 00-0082 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water.....	637.34	28.17
23 22 16 00-0083 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water.....	856.10	33.45
23 22 16 00-0084 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,241.24	39.43
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	285.30	42.27
<i>For Work In Restricted Working Space, Add</i>		
	25.36	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	288.82	44.03
<i>For Work In Restricted Working Space, Add</i>		
	26.42	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	417.12	46.92
<i>For Work In Restricted Working Space, Add</i>		
	28.18	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	666.73	64.03
<i>For Work In Restricted Working Space, Add</i>		
	38.42	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	981.17	78.90
<i>For Work In Restricted Working Space, Add</i>		
	46.96	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	1,263.77	117.41
<i>For Work In Restricted Working Space, Add</i>		
	70.45	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	301.14	44.03
<i>For Work In Restricted Working Space, Add</i>		
	26.42	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	389.36	46.96
<i>For Work In Restricted Working Space, Add</i>		
	28.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	485.55 38.42	64.04
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	651.12 46.96	78.27
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,173.37 70.45	117.36
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	375.33 26.42	44.03
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	407.32 28.18	46.92
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	534.51 38.42	64.03
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	758.84 46.96	78.20
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,282.73 70.45	117.40
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	478.16 26.42	44.03
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	531.37 28.18	46.96
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	803.84 38.42	64.03
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	832.30 46.96	78.20
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,591.22 70.45	117.41
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	484.69 26.42	44.03
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	531.37 28.18	46.96
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	803.84 38.42	64.03
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	832.30 46.96	78.20
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,591.22 70.45	117.40
23 22 16 00-0114 Thermostatic Steam Traps <small>(23 22 16 00-0085)</small>		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	160.26 25.36	42.27
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	249.63 26.42	44.03
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	303.23 28.18	46.92
23 22 16 00-0118 Thermodynamic Steam Traps <small>(23 22 16 00-0085)</small>		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	317.68	38.04
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	440.37	42.27
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	540.18	44.03
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	715.81	46.92
23 22 16 00-0123 Steam Moisture Separator <small>(23 22 16 00-0085)</small>		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	663.75	70.45
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	716.90	95.10
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	858.42	107.08
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,327.50	122.57
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,650.34	187.81
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	2,448.09	204.29
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,826.22	239.52
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	3,876.72	401.53
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	7,420.50	507.20
23 22 16 00-0133 Steam/Condensate Meter <small>(23 22 16)</small>		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	5,468.14	116.71
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0135 EA 2" Steam/Condensate Meter.....	6,171.17	137.14
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter.....	6,553.17	170.19
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0137 EA 3" Steam/Condensate Meter.....	6,962.39	223.69
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0138 EA 4" Steam/Condensate Meter.....	7,877.94	347.53
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0139 EA 6" Steam/Condensate Meter.....	13,445.06	439.60
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0140 EA 8" Steam/Condensate Meter.....	13,956.05	555.01
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0141 EA 10" Steam/Condensate Meter.....	14,630.17	680.80
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0142 EA 12" Steam/Condensate Meter.....	15,369.08	826.68
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0143 EA 14" Steam/Condensate Meter.....	16,389.57	972.56
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0144 EA 16" Steam/Condensate Meter.....	16,988.55	1,069.82
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	

23 22 23 Steam Condensate Pumps (23 22)**23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)****23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)**

Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,503.90	660.34
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,206.28	678.51
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,354.12	723.91
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,689.68	731.70
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,121.51	796.56
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,035.95	796.56
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,138.53	851.05
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,478.76	889.97
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,556.92	928.90

23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,870.69	705.75
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,728.19	723.91
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,872.53	771.91
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,474.90	834.18
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,138.53	852.35
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,308.62	882.18
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,501.62	928.90
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,536.73	988.57
23 22 23 13-0021 40 PSI Discharge Pressure <small>(23 22 23 13-0001)</small>		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,201.25	809.53
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,035.92	874.40
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,721.02	864.03
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,278.21	882.18
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,412.62	919.81
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,556.92	928.90
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,665.98	988.57
23 22 23 13-0029 50 PSI Discharge Pressure <small>(23 22 23 13-0001)</small>		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	5,990.41	877.00
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,355.63	895.16
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,996.84	901.65
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,520.15	980.78
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	10,254.42	1,057.33
23 22 23 13-0035 Duplex Condensate Pumps And Motors <small>(23 22 23 13)</small>		
<small>Note: Cast iron receiver, float switch, alternator assembly.</small>		
23 22 23 13-0036 20 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,117.84	886.08
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,365.96	973.00
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,765.37	980.78
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,323.25	1,069.00
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,389.75	1,069.00
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,535.35	1,152.04
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	8,914.83	1,202.64
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	9,137.93	1,262.31
23 22 23 13-0045 30 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,322.54	954.84
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,576.07	1,043.05
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,169.77	1,017.12
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,535.35	1,152.04
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,750.77	1,194.84
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	8,833.81	1,262.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	9,274.16	1,353.12
23 22 23 13-0053 40 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,782.50	1,126.09
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,382.13	1,176.69
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,769.02	1,194.84
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,993.64	1,254.52
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	9,139.45	1,262.31
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	9,310.65	1,353.12
23 22 23 13-0060 50 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,034.92	1,126.09
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,515.52	1,237.66
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	8,166.35	1,344.04
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	14,136.10	1,455.61
23 23 Refrigerant Piping (23 20)		
23 23 13 Refrigerant Piping Valves (23 23)		
23 23 13 00-0001 Ball Valves (23 23 13)		
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)		
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated	52.65	14.09
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated	54.92	14.09
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated	68.77	14.09
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated	92.20	15.50
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated	125.48	17.61
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated	200.46	21.69
23 23 13 00-0009 Shut-Off Valves (23 23 13)		
23 23 13 00-0010 Packless (23 23 13 00-0009)		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless	61.27	14.66
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless	75.13	16.07
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless	147.20	21.98
23 23 13 00-0014 Packed (23 23 13 00-0009)		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed	257.05	31.98
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed	341.33	39.16
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed	413.49	44.10
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed	582.86	50.30
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed	1,003.34	140.89
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed	1,311.08	176.11
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed	1,854.51	234.86
23 23 13 00-0022 Check Valves (23 23 13)		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration	80.08	14.09
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration	226.82	15.50
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration	264.05	17.61
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration	353.74	18.74
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration	460.88	21.70
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration	673.07	25.64
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration	943.31	37.61
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration	1,238.14	49.31
23 23 13 00-0031 Solenoid Valves (23 23 13)		
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration	218.37	14.09
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration	223.40	14.09
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration	277.23	15.50
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration	277.23	15.50
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration	385.77	17.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration	614.12	18.74
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration	1,117.34	21.70
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration	1,137.04	25.64
 23 23 16 Refrigerant Piping Specialties (23 23)		
23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)		
Note: Based on outside diameter. Nitrogenized. Lengths up to 100' See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing	5.73	3.35
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing	5.98	3.44
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing	6.24	3.54
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing	6.63	3.59
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing	6.81	3.65
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing	7.58	3.83
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing	8.25	3.87
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing	8.96	4.01
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing	11.42	4.71
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	14.36	5.39
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	20.34	6.38
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	24.37	7.14
 23 23 16 00-0014 Type L Drawn, ACR Copper Tubing (23 23 16)		
Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	7.52	3.94
For Medical Applications "Oxygen Clean", Add		0.68
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	8.31	3.94
For Medical Applications "Oxygen Clean", Add		0.72
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	8.81	3.94
For Medical Applications "Oxygen Clean", Add		0.74
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	12.74	5.92
For Medical Applications "Oxygen Clean", Add		1.08
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	13.90	6.34
For Medical Applications "Oxygen Clean", Add		1.17
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	15.88	6.34
For Medical Applications "Oxygen Clean", Add		1.27
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	19.63	7.32
For Medical Applications "Oxygen Clean", Add		1.54
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	23.62	8.45
For Medical Applications "Oxygen Clean", Add		1.82
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	33.01	10.56
For Medical Applications "Oxygen Clean", Add		2.44
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	49.56	15.92
For Medical Applications "Oxygen Clean", Add		3.68
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	63.85	19.73
For Medical Applications "Oxygen Clean", Add		4.67
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	79.95	23.38
For Medical Applications "Oxygen Clean", Add		5.76
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	98.59	28.18
For Medical Applications "Oxygen Clean", Add		7.04
 23 23 16 00-0028 Refrigeration Fittings (23 23 16)		
23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)		
23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0031 EA 3/8" Brass Flare Union	29.75	15.22
23 23 16 00-0032 EA 1/2" Brass Flare Union	29.75	15.22
23 23 16 00-0033 EA 5/8" Brass Flare Union	31.56	15.22
 23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union	30.85	15.22
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union	30.85	15.22
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union	36.90	15.22
 23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)		
23 23 16 00-0039 EA 3/8" Brass Flare Tee	48.37	25.35
23 23 16 00-0040 EA 1/2" Brass Flare Tee	51.08	25.35
23 23 16 00-0041 EA 5/8" Brass Flare Tee	65.78	25.35
 23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union	24.78	15.22
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union	26.59	15.22
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union	29.17	15.22

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union	27.11	15.22
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut.....	25.88	15.22
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut.....	26.59	15.22
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut.....	34.45	15.22
23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut	24.86	15.22
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	26.49	15.22
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	26.83	15.22
23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028)		
Note: Soldered.		
23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058)		
Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	24.36	15.22
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	24.07	15.22
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	24.50	15.22
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	25.39	15.92
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	35.44	20.99
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	35.24	21.56
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling.....	45.98	26.77
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling.....	65.29	36.63
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling.....	78.18	42.98
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling.....	100.94	52.13
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling.....	170.16	79.18
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling.....	226.29	104.12
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling.....	344.96	123.70
23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)		
Note: C x C		
23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.53	15.22
23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	30.43	15.92
23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	43.37	20.99
23 23 16 00-0079 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	44.02	21.56
23 23 16 00-0080 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	55.79	26.77
23 23 16 00-0081 EA 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	70.94	36.63
23 23 16 00-0082 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	89.46	42.98
23 23 16 00-0083 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	123.58	52.13
23 23 16 00-0084 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	209.72	79.18
23 23 16 00-0085 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	270.56	104.12
23 23 16 00-0086 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	478.29	123.70
23 23 16 00-0087 ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)		
Note: C x C		
23 23 16 00-0088 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	33.10	15.22
23 23 16 00-0089 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	30.53	15.22
23 23 16 00-0090 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	32.57	15.22
23 23 16 00-0091 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	32.77	15.92
23 23 16 00-0092 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	40.51	20.99
23 23 16 00-0093 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	43.72	21.56
23 23 16 00-0094 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	58.48	26.77
23 23 16 00-0095 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	84.79	36.63
23 23 16 00-0096 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	104.56	42.98
23 23 16 00-0097 EA 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	183.52	52.13
23 23 16 00-0098 EA 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	285.59	79.18
23 23 16 00-0099 EA 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	377.17	104.12
23 23 16 00-0100 EA 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	777.51	123.70
23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)		
Note: C x C		
23 23 16 00-0102 EA 1/4" ACR Wrought Copper 45 Degree Elbow	36.62	15.22
23 23 16 00-0103 EA 3/8" ACR Wrought Copper 45 Degree Elbow	33.10	15.22
23 23 16 00-0104 EA 1/2" ACR Wrought Copper 45 Degree Elbow	31.59	15.22
23 23 16 00-0105 EA 5/8" ACR Wrought Copper 45 Degree Elbow	27.50	15.92
23 23 16 00-0106 EA 3/4" ACR Wrought Copper 45 Degree Elbow	47.12	20.99
23 23 16 00-0107 EA 7/8" ACR Wrought Copper 45 Degree Elbow	38.52	21.56
23 23 16 00-0108 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow	55.75	26.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0109 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow	75.93	36.63
23 23 16 00-0110 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow	89.77	42.98
23 23 16 00-0111 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow	120.29	52.13
23 23 16 00-0112 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow	208.62	79.18
23 23 16 00-0113 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow	281.67	104.12
23 23 16 00-0114 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow	452.88	123.70
23 23 16 00-0115 ACR Wrought Copper Tee (23 23 16 00-0058)		
Note: C x C x C		
23 23 16 00-0116 EA 1/4" ACR Wrought Copper Tee	49.07	25.35
23 23 16 00-0117 EA 3/8" ACR Wrought Copper Tee	49.69	25.35
23 23 16 00-0118 EA 1/2" ACR Wrought Copper Tee	47.39	25.35
23 23 16 00-0119 EA 5/8" ACR Wrought Copper Tee	51.15	31.98
23 23 16 00-0120 EA 3/4" ACR Wrought Copper Tee	69.20	31.98
23 23 16 00-0121 EA 7/8" ACR Wrought Copper Tee	56.58	32.40
23 23 16 00-0122 EA 1-1/8" ACR Wrought Copper Tee	89.22	42.98
23 23 16 00-0123 EA 1-3/8" ACR Wrought Copper Tee	111.52	52.13
23 23 16 00-0124 EA 1-5/8" ACR Wrought Copper Tee	144.29	61.85
23 23 16 00-0125 EA 2-1/8" ACR Wrought Copper Tee	204.04	82.42
23 23 16 00-0126 EA 2-5/8" ACR Wrought Copper Tee	432.00	179.91
23 23 16 00-0127 EA 3-1/8" ACR Wrought Copper Tee	529.51	197.81
23 23 16 00-0128 EA 4-1/8" ACR Wrought Copper Tee	893.25	219.79
23 23 16 00-0129 ACR Wrought Copper Male Adapter (23 23 16 00-0058)		
Note: C x M		
23 23 16 00-0130 EA 1/4" ACR Wrought Copper Male Adapter	40.13	15.22
23 23 16 00-0131 EA 3/8" ACR Wrought Copper Male Adapter	45.76	15.22
23 23 16 00-0132 EA 1/2" ACR Wrought Copper Male Adapter	36.40	15.22
23 23 16 00-0133 ACR Wrought Copper Female Adapter (23 23 16 00-0058)		
Note: C x F		
23 23 16 00-0134 EA 1/4" ACR Wrought Copper Female Adapter	37.91	15.22
23 23 16 00-0135 EA 3/8" ACR Wrought Copper Female Adapter	34.68	15.22
23 23 16 00-0136 EA 1/2" ACR Wrought Copper Female Adapter	35.90	15.22
23 23 16 00-0137 ACR Wrought Copper Cap (23 23 16 00-0058)		
Note: C		
23 23 16 00-0138 EA 1/4" ACR Wrought Copper Cap	17.87	10.14
23 23 16 00-0139 EA 3/8" ACR Wrought Copper Cap	16.84	10.14
23 23 16 00-0140 EA 1/2" ACR Wrought Copper Cap	17.84	10.14
23 23 16 00-0141 ACR Wrought Copper P-Trap (23 23 16 00-0058)		
23 23 16 00-0142 EA 5/8" ACR Wrought Copper P-Trap	106.64	12.97
23 23 16 00-0143 EA 3/4" ACR Wrought Copper P-Trap	143.73	14.27
23 23 16 00-0144 EA 7/8" ACR Wrought Copper P-Trap	126.96	14.27
23 23 16 00-0145 EA 1-1/8" ACR Wrought Copper P-Trap	171.14	15.57
23 23 16 00-0146 EA 1-3/8" ACR Wrought Copper P-Trap	296.23	15.57
23 23 16 00-0147 EA 1-5/8" ACR Wrought Copper P-Trap	414.84	16.87
23 23 16 00-0148 EA 2-1/8" ACR Wrought Copper P-Trap	739.48	18.17
23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)		
23 23 16 00-0150 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	61.73	19.46
23 23 16 00-0151 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	74.56	23.35
23 23 16 00-0152 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	89.56	28.54
23 23 16 00-0153 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	99.36	32.43
23 23 16 00-0154 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	132.03	41.52
23 23 16 00-0155 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	154.57	50.60
23 23 16 00-0156 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	227.40	59.68
23 23 16 00-0157 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	285.59	81.73
23 23 16 00-0158 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	351.73	101.19
23 23 16 00-0159 Filter Driers, Solder Connections (23 23 16)		
23 23 16 00-0160 Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0159)		
23 23 16 00-0161 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	476.81	11.68
23 23 16 00-0162 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	493.45	14.27
23 23 16 00-0163 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	633.27	14.27
23 23 16 00-0164 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	644.93	15.57
23 23 16 00-0165 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	729.75	16.87
23 23 16 00-0166 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	842.85	18.17
23 23 16 00-0167 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	989.18	19.46
23 23 16 00-0168 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,235.17	19.46

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0169			Sealed In-Line Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0170	EA		1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	97.12	11.68
23 23 16 00-0171	EA		3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	124.15	11.68
23 23 16 00-0172	EA		1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections.....	157.57	12.97
23 23 16 00-0173	EA		1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	180.47	12.97
23 23 16 00-0174	EA		5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	199.65	12.97
23 23 16 00-0175	EA		5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections.....	222.42	12.97
23 23 16 00-0176	EA		7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	251.25	14.27
23 23 16 00-0177	EA		7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	341.50	14.27
23 23 16 00-0178	EA		1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	376.37	14.27
23 23 16 00-0179			Bi-Flow Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0180	EA		1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	125.38	11.68
23 23 16 00-0181	EA		3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	144.26	11.68
23 23 16 00-0182	EA		1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	174.03	12.97
23 23 16 00-0183	EA		3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	152.24	11.68
23 23 16 00-0184	EA		1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	190.48	12.97
23 23 16 00-0185	EA		5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	225.25	12.97
23 23 16 00-0186			Refrigerant Compressor Discharge Mufflers <small>(23 23 16)</small>		
23 23 16 00-0187	EA		3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler.....	118.62	11.68
23 23 16 00-0188	EA		1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler.....	131.18	11.68
23 23 16 00-0189	EA		5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler.....	157.36	11.68
23 23 16 00-0190	EA		7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	212.27	14.27
23 23 16 00-0191	EA		1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	278.50	14.27
23 23 16 00-0192	EA		1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	331.73	15.57
23 23 16 00-0193	EA		1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	418.92	16.87
23 23 16 00-0194	EA		2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	717.86	18.17
23 23 16 00-0195	EA		2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	814.10	19.46
23 23 16 00-0196	EA		3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,009.61	19.46
23 23 16 00-0197			Expansion Valves And Vibration Absorbers <small>(23 23 16)</small>		
23 23 16 00-0198			Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>		
			Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199	EA		3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	229.56	11.68
23 23 16 00-0200	EA		1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	319.00	12.97
23 23 16 00-0201	EA		5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	523.64	12.97
23 23 16 00-0202	EA		7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	621.75	14.27
23 23 16 00-0203	EA		7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	686.62	14.27
23 23 16 00-0204			Electric Expansion Valves <small>(23 23 16 00-0197)</small>		
			Note: Sporlan SEI or SEH.		
23 23 16 00-0205	EA		1/2 To 11 Ton Electric Expansion Valve	594.35	16.21
			Note: Sporlan SEI.		
23 23 16 00-0206	EA		25 Ton Electric Expansion Valve	685.51	16.87
			Note: Sporlan SEI.		
23 23 16 00-0207	EA		50 Ton Electric Expansion Valve	777.15	17.51
			Note: Sporlan SEI.		
23 23 16 00-0208	EA		100 Ton Electric Expansion Valve	918.40	17.51
			Note: Sporlan SEH.		
23 23 16 00-0209	EA		175 Ton Electric Expansion Valve	1,032.55	18.17
			Note: Sporlan SEH.		
23 23 16 00-0210			Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>		
23 23 16 00-0211	EA		1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	61.27	16.87
23 23 16 00-0212	EA		3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	64.23	19.46
23 23 16 00-0213	EA		1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	82.39	24.65
23 23 16 00-0214	EA		5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	90.47	29.84
23 23 16 00-0215	EA		3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	107.40	36.32
23 23 16 00-0216	EA		7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	123.55	41.52
23 23 16 00-0217	EA		1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	176.37	15.57
23 23 16 00-0218	EA		1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	241.47	16.87
23 23 16 00-0219	EA		1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	296.39	16.87
23 23 16 00-0220	EA		2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	393.86	18.17
23 23 16 00-0221	EA		2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	653.33	19.46
23 23 16 00-0222	EA		3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	851.17	19.46
23 23 16 00-0223			Accumulator, Refrigerant Suction Line <small>(23 23 16)</small>		
23 23 16 00-0224	EA		3/4" Accumulator, Refrigeration Suction Line.....	199.82	59.03
23 23 16 00-0225	EA		7/8" Accumulator, Refrigeration Suction Line.....	271.53	81.08
23 23 16 00-0226	EA		1-1/8" Accumulator, Refrigeration Suction Line	330.68	108.07
23 23 16 00-0227	EA		1 3/8" Accumulator, Refrigeration Suction Line.....	452.32	129.73
23 23 16 00-0228	EA		1-5/8" Accumulator, Refrigeration Suction Line	613.38	162.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line	914.45	216.27
23 23 16 00-0230 Special Chemicals/Component <small>(23 23 16)</small>		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100%	34.21	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	10.06	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....	23.60	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush	323.64	
Note: Up to 10 ton AC system.		
23 23 23 Refrigerants <small>(23 23)</small>		
23 23 23 00-0001 Refrigerant <small>(23 23 23)</small>		
23 23 23 00-0002 LB R-113 Refrigerant	24.82	
23 23 23 00-0003 LB R-123 Refrigerant	18.21	
23 23 23 00-0004 LB R-134A Refrigerant.....	6.49	
23 23 23 00-0005 LB R-404A Refrigerant.....	11.61	
23 23 23 00-0006 LB R-407C Refrigerant.....	11.49	
23 23 23 00-0007 LB R-408A Refrigerant.....	26.19	
23 23 23 00-0008 LB R-410A Refrigerant.....	11.26	
23 23 23 00-0009 LB R-500 Refrigerant	22.25	
23 23 23 00-0010 LB R-507 Refrigerant	7.16	
23 25 HVAC Water Treatment <small>(23 25)</small>		
23 25 13 Water Treatment for Closed-Loop Hydronic Systems <small>(23 25)</small>		
23 25 13 00-0001 Polyethylene Chemical Storage Tanks <small>(23 25 13)</small>		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....	374.10	108.34
23 25 13 00-0003 Gas Chlorinator <small>(23 25 13)</small>		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,336.04	492.95
For Booster Pump, Add		541.91
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,526.57	563.37
For Booster Pump, Add		619.48
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	2,053.51	426.75
For Booster Pump, Add		748.43
23 25 13 00-0007 Bypass Shot Feeders <small>(23 25 13)</small>		
Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG	1,258.44	367.14
23 25 13 00-0010 Floor Mount, 175 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,857.92	552.66
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,451.67	731.70
23 25 13 00-0013 Floor Mount, 150 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,857.92	552.66
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	2,451.67	731.70
23 25 13 00-0016 Floor Mount, 300 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,242.63	552.66
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,851.14	731.70

END OF SECTION 23

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 25 HVAC Water Treatment



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	461.81	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	94.44	
	For >20 To 50, Add	75.55	
	For >50 To 100, Add	37.78	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	597.21	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	128.29	
	For >20 To 50, Add	102.63	
	For >50 To 100, Add	51.32	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	895.09	
	Note: 4mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	202.76	
	For >20 To 50, Add	162.21	
	For >50 To 100, Add	81.11	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	457.95	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	93.48	
	For >20 To 50, Add	74.78	
	For >50 To 100, Add	37.39	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	460.33	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	94.07	
	For >20 To 50, Add	75.26	
	For >50 To 100, Add	37.63	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	586.18	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	125.54	
	For >20 To 50, Add	100.43	
	For >50 To 100, Add	50.21	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	870.60	
	Note: 4mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	196.64	
	For >20 To 50, Add	157.31	
	For >50 To 100, Add	78.66	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	364.32	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	70.07	
	For >20 To 50, Add	56.06	
	For >50 To 100, Add	28.03	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	510.55	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	106.63	
	For >20 To 50, Add	85.30	
	For >50 To 100, Add	42.65	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	723.80	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	159.94	
	For >20 To 50, Add	127.95	
	For >50 To 100, Add	63.98	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	660.53	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	144.12	
	For >20 To 50, Add	115.30	
	For >50 To 100, Add	57.65	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	905.19	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	205.29	
	For >20 To 50, Add	164.23	
	For >50 To 100, Add	82.12	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,652.44	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	392.10	
For >20 To 50, Add	313.68	
For >50 To 100, Add	156.84	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	757.77	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	168.43	
For >20 To 50, Add	134.75	
For >50 To 100, Add	67.37	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,112.02	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	257.00	
For >20 To 50, Add	205.60	
For >50 To 100, Add	102.80	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001 Lock Out/Tag Out Devices <small>(26 01 20 91)</small>		
Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002 EA Lock Out/Tag Out Local Disconnect	49.33	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003 EA Lock Out/Tag Out Breaker Or Motor Starter	49.33	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004 EA Lock Out/Tag Out Padlock Device	13.71	
26 01 20 91-0005 EA Lock Out/Tag Out Tags	3.89	
26 01 20 91-0006 Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0007 EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	28.51	
26 01 20 91-0008 EA Lighting, Existing Circuit Tracing Per Circuit	28.51	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001 Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002 Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003 EA APCD Permit To Construct And Operate Emergency Generator	3,932.86	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001 Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>		
Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 51-0002 Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	45.09	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	56.67	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	82.57	
26 01 50 51-0006 EA 60 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0007 EA 75 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0008 EA 90 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0009 EA 100 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0010 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	27.01	
26 01 50 51-0011 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	28.74	
26 01 50 51-0012 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	28.30	
26 01 50 51-0013 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	29.62	
26 01 50 51-0014 EA 100 Watt, PAR38, Halogen IR Reflective Lamp	29.90	
26 01 50 51-0015 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	27.41	
26 01 50 51-0016 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	27.41	
26 01 50 51-0017 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	30.16	
26 01 50 51-0018 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	30.16	
26 01 50 51-0019 Incandescent Lamps <small>(26 01 50 51-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	7.50	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	8.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	10.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	12.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	9.63	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	14.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	17.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	15.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	25.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	50.93	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	58.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0031 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	121.54	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	33.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-9.07	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	37.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0035 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	13.44	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	15.57	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	17.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	15.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	21.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	19.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	19.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	28.78	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	22.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	18.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	14.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	16.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	16.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	16.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	23.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	20.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	25.05	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	18.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	16.15	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	15.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	17.07	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	27.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	26.20	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	14.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	14.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....14.77 <i>For Multiple Lamps In Fixture, Deduct</i> -3.62		
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....15.31 <i>For Multiple Lamps In Fixture, Deduct</i> -3.62		
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....17.19 <i>For Multiple Lamps In Fixture, Deduct</i> -3.62		
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....18.82 <i>For Multiple Lamps In Fixture, Deduct</i> -4.08		
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....18.33 <i>For Multiple Lamps In Fixture, Deduct</i> -4.08		
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp .....19.74 <i>For Multiple Lamps In Fixture, Deduct</i> -4.08		
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....17.49		
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....11.06 <i>For Multiple Lamps In Fixture, Deduct</i> -2.27		
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....12.04 <i>For Multiple Lamps In Fixture, Deduct</i> -2.27		
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....22.80 <i>For Multiple Lamps In Fixture, Deduct</i> -2.27		
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....30.26		
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....30.26		
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....53.35		
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....20.51		
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....9.80		
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....8.96		
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....8.96		
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....26.76		
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....28.87		
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....51.72		
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....61.24		
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....63.18		
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....25.92		
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....26.85		
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....30.34		
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....46.63		
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....44.89		
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....50.39		
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....49.14		
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....48.78		
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....49.03		
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....57.81		
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....66.22		
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....65.87		
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....39.53 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....39.53 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....41.71 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....38.15 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.49		
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....81.56		
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....91.16		
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....101.02		
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....103.24		
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....105.46		
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....114.35		
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....154.33		
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....13.10		
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 01 50 51-0116 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
				26 01 50 51-0117 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
				26 01 50 51-0118 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	23.78	
				26 01 50 51-0119 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	17.96	
				26 01 50 51-0120 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	28.65	
26 01 50 51-0121				LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0112)</small>		
				26 01 50 51-0122 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	22.27	
				26 01 50 51-0123 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	20.62	
				26 01 50 51-0124 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	24.99	
				26 01 50 51-0125 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
				26 01 50 51-0126 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	26.94	
				26 01 50 51-0127 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
26 01 50 51-0128				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0112)</small>		
				26 01 50 51-0129 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	23.83	
				26 01 50 51-0130 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	29.87	
				26 01 50 51-0131 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	29.87	
				26 01 50 51-0132 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	28.90	
				26 01 50 51-0133 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
				26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
				26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	47.58	
				26 01 50 51-0136 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
				26 01 50 51-0137 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	28.90	
				26 01 50 51-0138 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	29.87	
				26 01 50 51-0139 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0140				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0112)</small>		
				26 01 50 51-0141 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	18.68	
				26 01 50 51-0142 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	22.27	
				26 01 50 51-0143 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	23.83	
26 01 50 51-0144				LED Lamps, PL Series <small>(26 01 50 51-0112)</small>		
				26 01 50 51-0145 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	20.26	
				26 01 50 51-0146 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	26.74	
				26 01 50 51-0147 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	22.61	
				26 01 50 51-0148 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	25.19	
				26 01 50 51-0149 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	25.19	
				26 01 50 51-0150 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	29.83	
				26 01 50 51-0151 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	25.19	
				26 01 50 51-0152 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	25.19	
				26 01 50 51-0153 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	25.19	
				26 01 50 51-0154 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	25.19	
				26 01 50 51-0155 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	28.28	
				26 01 50 51-0156 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	28.28	
				26 01 50 51-0157 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	28.28	
				26 01 50 51-0158 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	28.28	
				26 01 50 51-0159 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	26.74	
				26 01 50 51-0160 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	26.74	
				26 01 50 51-0161 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	26.74	
				26 01 50 51-0162 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	27.77	
				26 01 50 51-0163 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	27.77	
				26 01 50 51-0164 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	27.99	
				26 01 50 51-0165 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	27.99	
				26 01 50 51-0166 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	27.99	
				26 01 50 51-0167 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	27.99	
				26 01 50 51-0168 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	28.80	
				26 01 50 51-0169 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	28.80	
				26 01 50 51-0170 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	28.80	
				26 01 50 51-0171 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	28.80	
				26 01 50 51-0172 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	28.80	
				26 01 50 51-0173 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	28.80	
				26 01 50 51-0174 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	28.80	
				26 01 50 51-0175 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	28.80	
				26 01 50 51-0176 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	36.85	
				26 01 50 51-0177 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	36.85	
				26 01 50 51-0178 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	36.85	
				26 01 50 51-0179 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	34.99	
				26 01 50 51-0180 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	34.99	
				26 01 50 51-0181 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	34.99	
				26 01 50 51-0182 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	23.49	
26 01 50 51-0183				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0112)</small>		
				26 01 50 51-0184 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	70.54	
				26 01 50 51-0185 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	70.54	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

26 01 50 51-0186	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	89.60	
26 01 50 51-0187	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	89.60	
26 01 50 51-0188	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	61.08	
26 01 50 51-0189	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	61.08	
26 01 50 51-0190	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	61.08	
26 01 50 51-0191	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	61.08	
26 01 50 51-0192	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	63.14	
26 01 50 51-0193	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	63.14	
26 01 50 51-0194	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	63.14	
26 01 50 51-0195	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	63.14	
26 01 50 51-0196	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	71.38	
26 01 50 51-0197	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	71.38	
26 01 50 51-0198	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	71.38	
26 01 50 51-0199	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	71.38	
26 01 50 51-0200	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	81.69	
26 01 50 51-0201	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	81.69	
26 01 50 51-0202	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	81.69	
26 01 50 51-0203	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	81.69	
26 01 50 51-0204	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	104.36	
26 01 50 51-0205	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	104.36	
26 01 50 51-0206	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	104.36	
26 01 50 51-0207	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	104.36	
26 01 50 51-0208	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	123.94	
26 01 50 51-0209	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	123.94	
26 01 50 51-0210	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	123.94	
26 01 50 51-0211	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	123.94	
26 01 50 51-0212	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	137.34	
26 01 50 51-0213	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	137.34	
26 01 50 51-0214	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	137.34	
26 01 50 51-0215	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	137.34	
26 01 50 51-0216	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	185.77	
26 01 50 51-0217	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	185.77	
26 01 50 51-0218	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	185.77	
26 01 50 51-0219	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	185.77	
26 01 50 51-0220	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	191.95	
26 01 50 51-0221	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	191.95	
26 01 50 51-0222	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	191.95	
26 01 50 51-0223	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	191.95	
26 01 50 51-0224	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	228.02	
26 01 50 51-0225	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	228.02	
26 01 50 51-0226	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	228.02	
26 01 50 51-0227	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	228.02	
26 01 50 51-0228	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	271.30	
26 01 50 51-0229	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	271.30	
26 01 50 51-0230	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	271.30	
26 01 50 51-0231	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	271.30	
26 01 50 51-0232	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	87.51	
26 01 50 51-0233	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	94.72	
26 01 50 51-0234	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	94.72	
26 01 50 51-0235	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	87.51	
26 01 50 51-0236	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	110.18	
26 01 50 51-0237	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	100.90	
26 01 50 51-0238	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	121.51	
26 01 50 51-0239	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	120.30	
26 01 50 51-0240	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	123.06	
26 01 50 51-0241	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	123.06	
26 01 50 51-0242	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	74.14	
26 01 50 51-0243	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	74.14	
26 01 50 51-0244	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	83.67	
26 01 50 51-0245	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	83.67	
26 01 50 51-0246	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	90.01	
26 01 50 51-0247	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	90.01	
26 01 50 51-0248	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	99.53	
26 01 50 51-0249	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	99.53	
26 01 50 51-0250	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	100.03	
26 01 50 51-0251	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	108.48	
26 01 50 51-0252	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	135.17	
26 01 50 51-0253	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	148.97	
26 01 50 51-0254	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	57.98	
26 01 50 51-0255	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	65.40	
26 01 50 51-0256	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	69.11	
26 01 50 51-0257	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	76.01	
26 01 50 51-0258	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	91.60	
26 01 50 51-0259	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	107.46	
26 01 50 51-0260	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	147.09	
26 01 50 51-0261	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	155.01	
26 01 50 51-0262	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	167.70	
26 01 50 51-0263	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	175.62	
26 01 50 51-0264	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	253.31	
26 01 50 51-0265	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-10D-20W-E26-50K)	69.89	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0266				HID LED Lamps, Mogul Base E39 Or EX39 <small>(26 01 50 51-0112)</small>		
	EA			120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	241.87	
	EA			120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	241.87	
	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	241.87	
	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	70.54	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	70.54	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	70.54	
	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	89.60	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	89.60	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	89.60	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	166.88	
	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	185.77	
	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	185.77	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	185.77	
	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	185.77	
	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	191.95	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	191.95	
	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	191.95	
	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	191.95	
	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	228.02	
	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	228.02	
	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	228.02	
	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	228.02	
	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	271.30	
	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	271.30	
	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	271.30	
	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	271.30	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	94.72	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	94.72	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	110.18	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	108.75	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	121.51	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	120.30	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	123.06	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	119.47	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	259.60	
	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7)	94.69	
	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7)	94.69	
	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7)	107.51	
	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7)	107.51	
	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7)	115.22	
	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7)	115.22	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	74.02	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	74.02	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	83.67	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	83.67	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	90.01	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	90.01	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	99.53	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	99.53	
	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	179.79	
	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	208.02	
	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	248.21	
	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	484.88	
	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	457.85	
	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	484.88	
	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	486.98	
	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	73.54	
	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	73.54	
	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	73.54	
	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	217.61	
	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	334.28	
	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	181.84	
	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	213.84	
	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	95.48	
	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	235.76	
26 01 50 51-0332				LED Lamps, 2G11 Base <small>(26 01 50 51-0112)</small>		
	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	40.95	
26 01 50 51-0334				LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0112)</small>		
	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	21.32	
26 01 50 51-0336				LED Lamps, G24 Base <small>(26 01 50 51-0112)</small>		
	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	27.01	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0338 LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small>		
26 01 50 51-0339	EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	36.97
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62
26 01 50 51-0340	EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	47.19
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62
26 01 50 51-0341	EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	39.80
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85
26 01 50 51-0342	EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	43.46
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08
26 01 50 51-0343	EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	47.29
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08
26 01 50 51-0344	EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	31.00
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08
26 01 50 51-0345	EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	29.62
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62
26 01 50 51-0346	EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	27.25
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62
26 01 50 51-0347	EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	27.87
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85
26 01 50 51-0348	EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	28.05
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08
26 01 50 51-0349	EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	28.96
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08

26 01 50 51-0350 Filament LED Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0351	EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	22.66
26 01 50 51-0352	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	22.66
26 01 50 51-0353	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	21.63
26 01 50 51-0354	EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	21.63
26 01 50 51-0355	EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	23.28
26 01 50 51-0356	EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	23.28
26 01 50 51-0357	EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	19.57
26 01 50 51-0358	EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	19.57
26 01 50 51-0359	EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	20.18
26 01 50 51-0360	EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	24.72
26 01 50 51-0361	EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	20.74

26 01 50 51-0362 Other Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0363	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	21.46
26 01 50 51-0364	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	21.46
26 01 50 51-0365	EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	21.46
26 01 50 51-0366	EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	22.49
26 01 50 51-0367	EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	22.49
26 01 50 51-0368	EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	22.49

26 01 50 51-0369 Recycle Hazardous Lamps <small>(26 01 50 51)</small>		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.		
26 01 50 51-0370	EA Recycle 2' Length Linear Fluorescent Lamps.....	0.38
26 01 50 51-0371	EA Recycle 3' Length Linear Fluorescent Lamps.....	0.56
26 01 50 51-0372	EA Recycle 4' Length Linear Fluorescent Lamps.....	0.75
26 01 50 51-0373	EA Recycle 6' Length Linear Fluorescent Lamps.....	1.13
26 01 50 51-0374	EA Recycle 8' Length Linear Fluorescent Lamps.....	1.51
26 01 50 51-0375	EA Recycle Compact Fluorescent Lamps.....	0.68
26 01 50 51-0376	EA Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.68
26 01 50 51-0377	EA Recycle High Intensity Discharge (HID) Lamps.....	2.35

26 01 50 52 Ballasts Replacement (26 01 50)

26 01 50 52-0001 Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.24
26 01 50 52-0003	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.33
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.30
26 01 50 52-0004	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	39.83
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.95
26 01 50 52-0005	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	42.57
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.77
26 01 50 52-0006	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	48.07
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.82 15.25	
26 01 50 52-0008 High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0008)		
26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)		
26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.91 14.42	34.33
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59 14.42	34.33
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59 14.42	34.33
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.96 14.42	34.33
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.96 14.42	34.33
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.08 14.42	34.33
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.08 14.42	34.33
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.09 14.42	34.33
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.06 14.42	34.33
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.32 14.42	34.33
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.31 14.42	34.33
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.73 14.42	34.33
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.73 14.42	34.33
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.16 14.42	34.33
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.87 14.42	34.33
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.87 14.42	34.33
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.65 14.42	34.33
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.65 14.42	34.33
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	281.15 14.42	34.33
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	281.15 14.42	34.33
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.79 4.12	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.75 6.18	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0036)		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.42 11.24 14.42	34.33
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.85 11.98 14.42	34.33
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.79 10.67 14.42	34.33
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.25 12.82 14.42	34.33
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.38 18.83 14.42	34.33

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	188.58	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	200.16	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	299.62	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	449.96	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	499.34	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	482.26	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	363.95	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	410.19	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	534.89	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	532.20	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	738.28	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	738.28	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	513.85	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	600.76	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	660.52	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	629.90	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	803.55	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	803.55	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	406.32	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	437.18	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	434.14	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	454.82	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	711.32	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	869.20	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	664.12	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	606.55	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	518.30	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0080 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	557.23	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0081 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	821.52	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0082 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	709.86	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0063)</small>		
26 01 50 52-0085 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	175.22	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	175.22	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	194.73	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	468.13	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	468.13	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	468.13	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	468.13	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	468.13	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 53 Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001 Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....	94.46	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures	210.74	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole	236.28	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	100.41	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	34.62	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	35.78	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	40.80	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder.....	15.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder.....	15.71	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder	17.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	19.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	21.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	17.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes.....	60.77	
26 01 50 81 Luminaire Replacement <small>(26 01 50)</small>		
26 01 50 81-0001 Retrofit Lighting Fixtures <small>(26 01 50 81)</small>		
26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) <small>(26 01 50 81-0002)</small>		
<i>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.</i>		
26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927)	121.33	
26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930)	121.33	
26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940)	121.33	
26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827)	100.31	
26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830)	100.31	
26 01 50 81-0009 EA 4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)	100.31	
26 01 50 81-0010 EA 6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)	109.16	
26 01 50 81-0011 EA 6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)	109.16	
26 01 50 81-0012 EA 6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)	109.16	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 81-0013		LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) <small>(26 01 50 81-0002)</small>	
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.			
26 01 50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w).....	351.04
26 01 50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w).....	364.31
26 01 50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w).....	377.59
26 01 50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w).....	393.60
26 01 50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w).....	432.31
26 01 50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w).....	448.32
26 01 50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w).....	484.82
26 01 50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w).....	498.09
26 01 50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w).....	514.10
26 01 50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w).....	538.43
26 01 50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w).....	564.41
26 01 50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w).....	589.85
26 01 50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w).....	603.12
26 01 50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w).....	625.24
26 01 50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w).....	651.46
26 01 50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w).....	679.11
26 01 50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w).....	721.14
26 01 50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w).....	739.94
26 01 50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w).....	772.54
26 01 50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w).....	815.68
26 01 50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w).....	837.80
26 01 50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w).....	890.57
26 01 50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w).....	939.23
26 01 50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w).....	972.94
26 01 50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w).....	1,020.50
26 01 50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w).....	1,112.83
26 01 50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w).....	1,123.89
26 01 50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w).....	1,152.34

26 01 50 81-0042		LED Lighting Retrofits For Existing Fixtures (Optilumen) <small>(26 01 50 81-0002)</small>	
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.			
26 01 50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35).....	150.35
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40).....	150.35
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50).....	150.35
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50).....	155.88
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50).....	166.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35).....	189.06
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40).....	189.06
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50).....	189.06
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35).....	150.35
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40).....	150.35
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50).....	150.35
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35).....	150.35
Note: Fits 2' x 2' Troffer/Strip			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0065 EA 2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) Note: Fits 2' x 2' Troffer/Strip	150.35	
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) Note: Fits 2' x 2' Troffer/Strip	150.35	
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) Note: Fits 2' x 2' Troffer/Strip	155.88	
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) Note: Fits 2' x 2' Troffer/Strip	155.88	
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) Note: Fits 2' x 2' Troffer/Strip	155.88	
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) Note: Fits 2' x 2' Troffer/Strip	162.52	
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) Note: Fits 2' x 2' Troffer/Strip	162.52	
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) Note: Fits 2' x 2' Troffer/Strip	162.52	
26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) <small>(26 01 50 81-0002)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	333.47	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	333.47	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	301.39	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	301.39	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) Note: No sensor, ZigBee ready driver	152.35	
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) Note: No sensor, ZigBee ready driver	152.35	
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) Note: No sensor, ZigBee ready driver	173.37	
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) Note: No sensor, ZigBee ready driver	173.37	
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	188.85	
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	188.85	
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	194.38	
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	194.38	
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) Note: No sensor, ZigBee ready driver	120.28	
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) Note: No sensor, ZigBee ready driver	120.28	
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) Note: No sensor, ZigBee ready driver	133.55	
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) Note: No sensor, ZigBee ready driver	133.55	
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) Note: No sensor, ZigBee ready driver	123.60	
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) Note: No sensor, ZigBee ready driver	123.60	
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) Note: No sensor, ZigBee ready driver	136.87	
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L) Note: No sensor, ZigBee ready driver	136.87	
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450) Note: No sensor, ZigBee ready driver	122.49	
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450) Note: No sensor, ZigBee ready driver	122.49	
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000) Note: No sensor, ZigBee ready driver	132.44	
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000) Note: No sensor, ZigBee ready driver	132.44	
26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) <small>(26 01 50 81-0002)</small> See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE).....	21.91	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	118.92	15.63
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	125.17	18.75
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	150.24	15.63
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B).....	156.49	18.75
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	79.81	12.50
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	31.46	12.50
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	33.29	12.50
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A)..... Note: includes dongle	78.99	18.75

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 81-0108	Retrofit Existing (T12) Fluorescent Fixtures <small>(26 01 50 81-0001)</small> Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for hazardous lamp recycling.		
26 01 50 81-0109	Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110	EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp <i>For Specular Ballast Cover, Add</i>	95.64	9.54
26 01 50 81-0111	EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps <i>For Specular Ballast Cover, Add</i>	100.95	10.60
26 01 50 81-0112	EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps <i>For Specular Ballast Cover, Add</i>	134.18	17.24
26 01 50 81-0113	EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps <i>For Specular Ballast Cover, Add</i>	150.98	20.60
26 01 50 81-0114	Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115	EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp <i>For Specular Reflector, Add</i>	100.53	10.51
26 01 50 81-0116	EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	106.42	11.69
26 01 50 81-0117	EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	141.02	18.61
26 01 50 81-0118	EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	172.80	24.97
26 01 50 81-0119	Retrofit Existing (T12) Troffer Style Fluorescent Fixtures <small>(26 01 50 81-0108)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps <i>For Specular Reflector, Add</i>	126.94	13.06
26 01 50 81-0121	EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	132.24	14.12
26 01 50 81-0122	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps <i>For Specular Reflector, Add</i>	134.72	14.61
26 01 50 81-0123	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps <i>For Specular Reflector, Add</i>	148.15	17.30
26 01 50 81-0124	EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps <i>For Specular Reflector, Add</i>	173.86	22.44
26 01 50 81-0125	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	138.11	15.29
26 01 50 81-0126	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps <i>For Specular Reflector, Add</i>	149.33	17.53
26 01 50 81-0127	EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	158.82	19.43
26 01 50 81-0128	Retrofit Existing Recessed Lay-In/Troffer Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0129	Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0130	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0131	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0132	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0133	EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	173.59	
26 01 50 81-0134	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.55	
26 01 50 81-0135	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.55	
26 01 50 81-0136	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.55	
26 01 50 81-0137	EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.59	
26 01 50 81-0138	EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0139	EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0140	EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0141 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	174.11	
26 01 50 81-0142 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0143 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0144 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0145 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	174.11	
26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) (26 01 50 81-0128)		
Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0147 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	221.23	
26 01 50 81-0148 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	230.10	
26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) (26 01 50 81-0128)		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0150 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	300.23	
26 01 50 81-0151 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	307.04	
26 01 50 81-0152 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	300.23	
26 01 50 81-0153 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	307.04	
26 01 50 81-0154 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	341.12	
26 01 50 81-0155 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	351.35	
26 01 50 81-0156 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	375.20	
26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) (26 01 50 81-0128)		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0158 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	279.37	
26 01 50 81-0159 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	288.88	
26 01 50 81-0160 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	291.72	
26 01 50 81-0161 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	301.23	
26 01 50 81-0162 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	215.19	
26 01 50 81-0163 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	219.71	
26 01 50 81-0164 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	226.94	
26 01 50 81-0165 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	231.45	
26 01 50 81-0166 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	282.03	
26 01 50 81-0167 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1G1UNVFDSX84024MST).....	332.60	
26 01 50 81-0168 Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) (26 01 50 81-0128)		
Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0169 EA 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	240.09	
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	186.98	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	245.11	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	191.81	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0173	EA		3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	255.25	
26 01 50 81-0174	EA		3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	205.85	
26 01 50 81-0175	EA		1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	282.82	
26 01 50 81-0176	EA		1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	229.51	
26 01 50 81-0177	EA		2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	287.62	
26 01 50 81-0178	EA		2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	234.19	
26 01 50 81-0179	EA		3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	297.80	
26 01 50 81-0180	EA		3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	248.28	
26 01 50 81-0181			LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0182	EA		3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	539.44	
26 01 50 81-0183	EA		4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	597.50	
26 01 50 81-0184			Retrofit Existing HID Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0185	EA		Tear Drop LED Retrofit Kit (Holophane LTDR2L P35S 40K AS BK TDRD 3 P).....	1,216.61	
26 01 50 81-0186			LED Lighting Retrofits For Existing Fluorescent Fixtures <small>(26 01 50 81-0001)</small> Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0187			LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0188	EA		2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	130.29	
			For >25 To 50, Deduct	-6.51	
			For >50 To 100, Deduct	-11.31	
			For >100, Deduct	-19.20	
26 01 50 81-0189	EA		2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	189.11	
			For >25 To 50, Deduct	-9.46	
			For >50 To 100, Deduct	-15.72	
			For >100, Deduct	-25.08	
26 01 50 81-0190	EA		3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	141.70	
			For >25 To 50, Deduct	-7.09	
			For >50 To 100, Deduct	-12.25	
			For >100, Deduct	-20.68	
26 01 50 81-0191	EA		3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	130.22	
			For >25 To 50, Deduct	-6.51	
			For >50 To 100, Deduct	-11.39	
			For >100, Deduct	-19.53	
26 01 50 81-0192	EA		4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	170.47	
			For >25 To 50, Deduct	-8.52	
			For >50 To 100, Deduct	-14.50	
			For >100, Deduct	-23.90	
26 01 50 81-0193	EA		4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	221.45	
			For >25 To 50, Deduct	-11.07	
			For >50 To 100, Deduct	-18.32	
			For >100, Deduct	-29.00	
26 01 50 81-0194	EA		4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	140.73	
			For >25 To 50, Deduct	-7.04	
			For >50 To 100, Deduct	-12.27	
			For >100, Deduct	-20.92	
26 01 50 81-0195	EA		4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	140.73	
			For >25 To 50, Deduct	-7.04	
			For >50 To 100, Deduct	-12.27	
			For >100, Deduct	-20.92	
26 01 50 81-0196	EA		4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	180.67	
			For >25 To 50, Deduct	-9.03	
			For >50 To 100, Deduct	-15.26	
			For >100, Deduct	-24.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	309.44	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-15.47	
<i>For >50 To 100, Deduct</i>	-24.92	
<i>For >100, Deduct</i>	-37.80	
26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	333.55	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-16.68	
<i>For >50 To 100, Deduct</i>	-26.73	
<i>For >100, Deduct</i>	-40.21	
26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	351.58	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-17.58	
<i>For >50 To 100, Deduct</i>	-28.08	
<i>For >100, Deduct</i>	-42.01	
26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	379.74	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-18.99	
<i>For >50 To 100, Deduct</i>	-30.19	
<i>For >100, Deduct</i>	-44.83	
26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	407.33	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-20.37	
<i>For >50 To 100, Deduct</i>	-32.61	
<i>For >100, Deduct</i>	-48.96	
26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	440.03	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-22.00	
<i>For >50 To 100, Deduct</i>	-35.06	
<i>For >100, Deduct</i>	-52.23	
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) <small>(26 01 50 81-0186)</small>		
<small>Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.</small>		
26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	103.86	
<i>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-5.19	
<i>For >50 To 100, Deduct</i>	-9.33	
<i>For >100, Deduct</i>	-16.55	
26 01 50 81-0208 EA 2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	103.86	
<i>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-5.19	
<i>For >50 To 100, Deduct</i>	-9.33	
<i>For >100, Deduct</i>	-16.55	
26 01 50 81-0209 EA 4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	133.32	
<i>Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</i>		
<i>For >25 To 50, Deduct</i>	-6.67	
<i>For >50 To 100, Deduct</i>	-11.71	
<i>For >100, Deduct</i>	-20.18	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0210	EA		4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	133.32	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.71	
			For >100, Deduct	-20.18	
26 01 50 81-0211	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0212	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0213	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0214	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0215	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0216	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0217	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0218	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0219	EA		4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	143.72	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.49	
			For >100, Deduct	-21.22	
26 01 50 81-0220	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	165.97	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.30	
			For >50 To 100, Deduct	-14.16	
			For >100, Deduct	-23.45	
26 01 50 81-0221	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	178.96	
			Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.95	
			For >50 To 100, Deduct	-15.13	
			For >100, Deduct	-24.75	
26 01 50 81-0222	EA		4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	165.97	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.30	
			For >50 To 100, Deduct	-14.16	
			For >100, Deduct	-23.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	178.96	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.95	
For >50 To 100, Deduct	-15.13	
For >100, Deduct	-24.75	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800)	163.14	
Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
For >25 To 50, Deduct	-8.16	
For >50 To 100, Deduct	-12.58	
For >100, Deduct	-17.69	
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W)	149.99	
Note: 90-minute emergency battery with power output of 20 Watts		
For >25 To 50, Deduct	-7.50	
For >50 To 100, Deduct	-11.59	
For >100, Deduct	-16.37	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50)	173.37	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.67	
For >50 To 100, Deduct	-15.23	
For >100, Deduct	-26.24	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F)	179.86	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.99	
For >50 To 100, Deduct	-15.72	
For >100, Deduct	-26.89	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40)	243.69	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-12.18	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-33.28	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)	269.68	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-13.48	
For >50 To 100, Deduct	-22.45	
For >100, Deduct	-35.87	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50)	243.69	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-12.18	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-33.28	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	269.68	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-13.48	
For >50 To 100, Deduct	-22.45	
For >100, Deduct	-35.87	

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0004 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,306.37	1,048.33
26 05 13 16-0005 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,140.46	1,144.67
26 05 13 16-0006 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,167.66	1,293.31
26 05 13 16-0007 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,041.59	1,593.41
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,168.34	1,794.32
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,347.49	1,991.65
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,774.55	2,237.82
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,239.50	2,489.66
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,733.29	2,972.60
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,470.96	3,494.22
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,970.52	4,118.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	45,476.62	4,742.12
26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,175.32	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,768.45	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,424.02	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,794.04	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,418.39	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,349.84	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,161.49	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,248.73	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,665.95	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,217.44	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,415.45	661.61
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,133.79	709.39
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,279.80	897.08
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,905.51	1,089.03
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,025.04	1,278.42
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,190.88	1,462.01
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,615.13	1,696.35
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,595.26	2,134.11
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,361.75	2,700.31
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,605.91	3,392.68
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0002)</small>		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,436.17	2,089.19
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,985.94	2,119.21
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,535.70	2,149.23
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,075.55	2,196.74
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,783.45	2,280.54
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,827.87	2,390.03
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	35,556.82	2,987.54
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,855.25	3,983.44
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,609.80	1,048.33
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,550.65	1,144.67
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,695.85	1,293.31
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,733.76	1,443.27
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,772.06	1,593.41
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,011.20	1,794.32
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,493.78	1,991.65
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,066.93	2,237.82
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,862.29	2,489.66
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,587.58	2,972.60
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,943.35	3,494.22
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	38,232.64	4,118.32
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	51,528.46	4,742.12
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,478.75	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,178.65	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,952.21	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,738.93	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,524.52	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,261.25	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,496.13	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,453.87	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,871.52	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,520.24	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,689.83	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0074	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,718.88		661.61
26 05 13 16-0075	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,543.98		709.39
26 05 13 16-0076	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,807.99		897.08
26 05 13 16-0077	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,720.22		992.35
26 05 13 16-0078	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,635.98		1,089.03
26 05 13 16-0079	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,867.90		1,278.42
26 05 13 16-0080	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,337.17		1,462.01
26 05 13 16-0081	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,907.51		1,696.35
26 05 13 16-0082	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,218.05		2,134.11
26 05 13 16-0083	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,216.04		2,700.31
26 05 13 16-0084	MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	25,078.30		3,392.68
26 05 13 16-0085	15 KV Cable <small>(26 05 13 16-0001)</small>			
26 05 13 16-0086	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>			
26 05 13 16-0087	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0086)</small>			
26 05 13 16-0088	MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,108.75		2,089.19
26 05 13 16-0089	MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,899.23		2,089.19
26 05 13 16-0090	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,200.75		2,089.19
26 05 13 16-0091	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,182.99		2,089.19
26 05 13 16-0092	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,115.28		2,089.19
26 05 13 16-0093	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,908.94		2,180.75
26 05 13 16-0094	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,275.19		2,180.75
26 05 13 16-0095	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,522.67		2,280.54
26 05 13 16-0096	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,803.89		2,334.01
26 05 13 16-0097	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,253.97		2,629.04
26 05 13 16-0098	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0086)</small>			
	Note: Excludes excavation.			
26 05 13 16-0099	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,953.41		
26 05 13 16-0100	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,935.64		
26 05 13 16-0101	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,867.93		
26 05 13 16-0102	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,690.49		
26 05 13 16-0103	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,056.73		
26 05 13 16-0104	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,427.65		
26 05 13 16-0105	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,712.63		
26 05 13 16-0106	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,863.94		
26 05 13 16-0107	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0086)</small>			
26 05 13 16-0108	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,448.83		945.13
26 05 13 16-0109	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,807.31		1,089.03
26 05 13 16-0110	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,234.79		1,278.42
26 05 13 16-0111	MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,279.85		1,462.01
26 05 13 16-0112	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,258.69		1,696.35
26 05 13 16-0113	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,984.64		1,974.76
26 05 13 16-0114	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,985.32		2,301.11
26 05 13 16-0115	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	23,670.22		2,672.95
26 05 13 16-0116	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>			
26 05 13 16-0117	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0116)</small>			
26 05 13 16-0118	MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,808.19		2,089.19
26 05 13 16-0119	MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,740.95		2,089.19
26 05 13 16-0120	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,096.75		2,089.19
26 05 13 16-0121	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,255.79		2,089.19
26 05 13 16-0122	MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,355.89		2,089.19
26 05 13 16-0123	MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,431.24		2,180.75
26 05 13 16-0124	MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,863.42		2,180.75
26 05 13 16-0125	MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,470.49		2,280.54
26 05 13 16-0126	MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,138.28		2,334.01
26 05 13 16-0127	MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	26,256.62		2,629.04
26 05 13 16-0128	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0116)</small>			
	Note: Excludes excavation.			
26 05 13 16-0129	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,849.41		
26 05 13 16-0130	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,008.45		

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,108.55	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,212.79	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,644.96	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,369.80	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	19,037.67	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	23,866.59	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,344.83	945.13
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,880.12	1,089.03
26 05 13 16-0140 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ...	11,475.41	1,278.42
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,802.15	1,462.01
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,846.92	1,696.35
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,932.47	1,974.76
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,319.71	2,301.11
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	26,672.87	2,672.95
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	13,330.16	2,096.51
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	11,433.20	2,146.62
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	17,475.30	2,196.74
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	24,213.65	2,343.13
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	61.60	15.99
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.20	17.03
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	61.60	15.99
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.20	17.03
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,505.34	1,048.33
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,409.44	1,144.67
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,514.01	1,293.31
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,510.00	1,589.07
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	9,707.61	1,788.94
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,099.16	1,991.65
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	13,601.15	2,229.45
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	23,150.88	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	340.71	136.83
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	399.33	136.83
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	399.33	136.83
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	440.05	164.19
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	440.05	164.19
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	440.05	164.19
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	450.20	164.19
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	521.97	191.56
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,155.32	328.38
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,597.81	451.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0186 Connect To Pothead, Pothead Included <small>(26 05 13 16-0186)</small>		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,190.73	328.38
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,481.20	376.28
26 05 13 16-0189 Two Conductor Pothead <small>(26 05 13 16-0189)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,125.46	451.52
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,460.14	574.68
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,974.05	651.57
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,862.18	760.21
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,964.20	1,140.18
26 05 13 16-0195 Three Conductor Pothead <small>(26 05 13 16-0189)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,171.71	656.77
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,527.31	766.23
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0189)</small>		
Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire	84.57	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire	92.80	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire	108.23	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire	123.17	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire	138.81	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire	154.17	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire	169.41	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire	185.13	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire	200.57	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire	216.22	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire	232.13	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire	247.40	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire	279.07	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire	311.40	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0189)</small>		
Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	85.83	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	93.49	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	125.48	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	144.67	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	159.70	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	174.69	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	191.26	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	207.05	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	222.55	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	238.32	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	253.90	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	288.37	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	323.01	
26 05 13 16-0227 15 KV <small>(26 05 13 16-0189)</small>		
26 05 13 16-0228 Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	1,386.18	574.68
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	1,751.30	711.50
26 05 13 16-0231 Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,085.91	875.69
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks	2,487.06	1,039.89
26 05 13 16-0234 Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	2,687.20	1,135.66
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	3,353.30	1,423.00
26 05 13 16-0237 Stress Relief Cone On Rack <small>(26 05 13 16-0227)</small>		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack	1,343.40	574.68
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack	1,703.20	711.50

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0240			Grounded, Shielded Cable Splice <small>(26 05 13 16-0227)</small>		
26 05 13 16-0241	EA		#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	962.60	424.16
26 05 13 16-0242	EA		250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,237.85	547.31
26 05 13 16-0243	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	4,627.07	1,505.10
26 05 13 16-0244	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 3-Way.....	5,600.36	1,641.93
26 05 13 16-0245			Cable Termination <small>(26 05 13 16-0227)</small>		
26 05 13 16-0246	EA		#2 To 3/0 AWG Cable Termination 15 KV.....	589.31	239.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.67	
26 05 13 16-0247	EA		4/0 To 250 MCM Cable Termination 15 KV.....	750.82	307.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.72	
26 05 13 16-0248	EA		350 To 500 MCM Cable Termination 15 KV.....	924.46	376.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	225.76	
26 05 13 16-0249	EA		#2 To 3/0 AWG Cable Elbow Termination 15 KV.....	356.95	136.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.10	
26 05 13 16-0250			Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0251	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	602.48	177.88
26 05 13 16-0252	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	678.78	196.59
26 05 13 16-0253	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	784.58	215.15
26 05 13 16-0254	EA		400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	975.24	247.88
26 05 13 16-0255			Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0256	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,204.97	356.36
26 05 13 16-0257	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,357.67	393.19
26 05 13 16-0258	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,553.22	422.31
26 05 13 16-0259	EA		400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,950.47	495.75
26 05 13 16-0260			35 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0261			35 KV One Conductor Splice <small>(26 05 13 16-0260)</small>		
26 05 13 16-0262	EA		#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	2,392.83	
26 05 13 16-0263			Cable Termination <small>(26 05 13 16-0260)</small>		
26 05 13 16-0264	EA		#2 To 3/0 AWG Cable Termination, 35 KV.....	461.83	164.33
26 05 13 16-0265	EA		3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	658.77	247.93
26 05 13 16-0266	EA		350 To 500 MCM Cable Termination 35 KV.....	737.82	265.17
26 05 13 16-0267	EA		#2 To 3/0 AWG Cable Elbow Termination 35 KV.....	374.17	136.83
26 05 13 16-0268			70 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0269			Cable Splice <small>(26 05 13 16-0268)</small>		
26 05 13 16-0270	EA		350 MCM, 70 KV, Cable Splicing.....	7,794.06	
26 05 13 16-0271	EA		#2 To 4/0, 70 KV, Cable Splicing.....	2,436.10	
26 05 19			Low-Voltage Electrical Power Conductors and Cables <small>(26 05)</small>		
26 05 19 13			Undercarpet Electrical Power Cables <small>(26 05 19)</small>		
26 05 19 13-0001			Under Carpet Power System <small>(26 05 19 13)</small>		
			Note: Includes laying out, floor prep, taping, testing, drill floor, folds.		
26 05 19 13-0002	LF		3-Conductor, #12 Flat Cable With Attached Bottom Shield.....	6.80	0.62
26 05 19 13-0003	LF		Steel, Top Shield.....	9.19	0.62
26 05 19 13-0004	EA		3-Conductor, Splice.....	39.18	10.62
26 05 19 13-0005	EA		Splice Top Shield For 3 Conductor.....	11.48	5.00
26 05 19 13-0006	EA		3-Conductor, Tap.....	48.81	12.50
26 05 19 13-0007	EA		Insulating Patch, Splice Tap And End.....	75.36	10.62
26 05 19 13-0008	EA		3-Conductor, Transition Block Assembly.....	49.10	6.25
26 05 19 13-0009	EA		Single, Direct Connected, Receptacle With Box.....	148.22	20.00
26 05 19 13-0010	EA		Dual, Direct Connected, Receptacle With Box.....	246.85	31.25
26 05 19 13-0011	EA		Floor Mounted Box With Cover.....	245.47	25.01
26 05 19 13-0012	LF		5-Conductor, #12 Cable With Attached Bottom Shield.....	10.80	0.62
26 05 19 13-0013	LF		Steel, Top Shield For 5-Conductor Cable.....	10.72	0.62
26 05 19 13-0014	EA		5-Conductor, Splice.....	39.70	10.62
26 05 19 13-0015	EA		5-Conductor, Transition Block Assembly.....	64.80	6.25
26 05 19 13-0016	EA		Box, Wall, Flush With Cover.....	111.32	25.01
26 05 19 13-0017	EA		Telephone, Transition Fitting Wall Box.....	73.71	20.63
26 05 19 13-0018	EA		RJ-45, Telephone Fitting With Duplex Jack And Cover.....	96.74	23.75
26 05 19 13-0019	EA		Miniature Telephone With Duplex RJ-45.....	41.56	9.38
26 05 19 13-0020	LF		4-Pair, Level 5, Under Carpet Telephone Wire.....	2.42	0.62
26 05 19 13-0021	EA		BNC, Coax Plug, Connector.....	33.58	12.50
26 05 19 13-0022	EA		TNC, Coax Plug, Connector.....	33.58	12.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	176.25	62.51
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001) Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.22	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.69	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.41	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001) Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	2.92	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.70	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	407.65	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable (26 05 19 16) Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations.		
26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012) Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.49	0.55
26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.57	0.55
26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.55
26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.72	0.55
26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.86	0.55
26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.05	0.55
26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.55
26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.19	0.55
26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.61	0.55
26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.33	0.55
26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.59	0.55
26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.96	0.55
26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.10	0.68
26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.27	0.68
26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.54	0.68
26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.57	0.55
26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.72	0.55
26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.92	0.55
26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.46	0.74
26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.80	0.76
26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.06	0.78
26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.47	0.80

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.18	0.84
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.95	0.86
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.98	0.88
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.12	0.90
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.35	0.92
26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.33	0.94
26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.87	0.96
26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.38	1.02
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.86	0.55
26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.99	0.55
26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.26	0.55
26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.63	0.74
26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.03	0.76
26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.43	0.78
26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.93	0.80
26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.14	0.82
26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.74	0.84
26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.76	0.86
26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.28	0.88
26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.27	0.90
26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.61	0.92
26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.83	0.94
26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.16	0.96
26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.51	0.98
26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.97	1.02
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.23	0.55
26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.38	0.55
26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.76	0.55
26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.82	0.74
26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.84	0.76
26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.18	0.78
26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.99	0.80
26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.54	0.82
26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.45	0.84
26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.32	0.86
26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.33	0.88
26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.50	0.90
26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.07	0.94
26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.65	0.96
26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.76	1.02
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.61	0.55
26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.90	0.55
26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.19	0.55
26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.57	0.74
26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.51	0.76
26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.47	0.78
26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.51	0.80
26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.25	0.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.51	0.84
26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.01	0.86
26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.41	0.88
26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.81	0.90
26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.47	0.92
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.89	0.94
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.37	0.96
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	22.87	0.98
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	23.66	1.00
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	24.54	1.02
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.02	0.68
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.27	0.68
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.53	0.68
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.77	0.74
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.04	0.76
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.52	0.78
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.34	0.84
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.19	0.86
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.19	0.90
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	26.66	0.94
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.26	0.82
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.84	0.96
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.48	0.96
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.15	0.96
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.07	1.09
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.29	1.37
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.71	1.37
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.17	1.50
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.60	1.64
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	21.71	2.74
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.67	3.42
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	33.25	4.52
26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0135 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.06	0.55
26 05 19 16-0136 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.30	0.55
26 05 19 16-0137 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0139 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.21	0.55
26 05 19 16-0140 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.59	0.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0141 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0143 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.16	0.55
26 05 19 16-0144 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.71	0.55
26 05 19 16-0145 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	6.08	0.68
26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0147 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0148 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.04	0.55
26 05 19 16-0149 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.69	0.55
26 05 19 16-0150 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.37	0.55
26 05 19 16-0151 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.27	0.55
26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.94	0.55
26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.99	0.55
26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.39	0.68
26 05 19 16-0156 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0157 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.09	0.55
26 05 19 16-0158 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.95	0.55
26 05 19 16-0159 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.54	0.68
26 05 19 16-0160 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0161 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.90	0.55
26 05 19 16-0162 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.66	0.55
26 05 19 16-0163 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.32	0.68
26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.63	0.68
26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.31	0.68
26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.97	0.68
26 05 19 16-0168 Multi-Conductor Type SEOW Cord (26 05 19 16-0013) Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0168)		
26 05 19 16-0170 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0171 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.24	0.55
26 05 19 16-0172 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.49	0.55
26 05 19 16-0173 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.91	0.68
26 05 19 16-0174 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.03	0.55
26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.52	0.55
26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.15	0.68
26 05 19 16-0178 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0179 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.84	0.55
26 05 19 16-0180 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.48	0.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0181 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0182 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0189)</small>		
26 05 19 16-0183 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.91	0.68
26 05 19 16-0184 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0185 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	6.10	0.68
26 05 19 16-0186 Multi-Conductor Type W Cord <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0186)</small>		
26 05 19 16-0188 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.91	0.82
26 05 19 16-0190 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.44	0.96
26 05 19 16-0191 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.86	0.96
26 05 19 16-0192 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.40	0.96
26 05 19 16-0194 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.85	1.09
26 05 19 16-0195 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	11.03	1.37
26 05 19 16-0196 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.26	0.96
26 05 19 16-0198 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.13	1.09
26 05 19 16-0199 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	15.64	1.37
26 05 19 16-0200 Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0012)</small>		
26 05 19 16-0201 Cord Grips <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	85.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0203 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	86.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0204 Cable Reels <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	824.08	68.41
26 05 19 16-0206 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,300.69	68.41
26 05 19 16-0207 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,717.00	68.41
26 05 19 16-0208 Extension Cords For Cable Reel <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	176.52	
26 05 19 16-0210 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	246.64	
26 05 19 16-0211 Plugs And Connector Bodies <small>(26 05 19 16-0200)</small> Note: Up to 277 volt		
26 05 19 16-0212 NEMA Twist-Lock Plugs <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	96.13	
26 05 19 16-0214 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	98.27	
26 05 19 16-0215 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	89.29	
26 05 19 16-0216 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.87	
26 05 19 16-0217 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	126.70	
26 05 19 16-0218 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	135.05	
26 05 19 16-0219 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	143.23	
26 05 19 16-0220 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	127.94	
26 05 19 16-0221 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	148.02	
26 05 19 16-0222 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	151.93	
26 05 19 16-0223 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	156.91	
26 05 19 16-0224 NEMA Twist-Lock Connector Bodies <small>(26 05 19 16-0211)</small>		
26 05 19 16-0225 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	102.17	
26 05 19 16-0226 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	109.73	
26 05 19 16-0227 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	93.82	
26 05 19 16-0228 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	127.94	
26 05 19 16-0229 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	149.98	
26 05 19 16-0230 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	160.64	
26 05 19 16-0231 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	196.54	
26 05 19 16-0232 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	187.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0233 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	232.44	
26 05 19 16-0234 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	244.34	
26 05 19 16-0235 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	231.37	
26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)		
26 05 19 16-0237 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	257.70	41.05
26 05 19 16-0238 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	260.25	41.05
26 05 19 16-0239 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	280.02	41.05
26 05 19 16-0240 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	282.27	45.15
26 05 19 16-0241 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	278.44	45.15
26 05 19 16-0242 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	279.58	45.15
26 05 19 16-0243 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	387.72	50.49
26 05 19 16-0244 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	378.16	50.49
26 05 19 16-0245 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	419.20	50.49
26 05 19 16-0246 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	414.44	55.42
26 05 19 16-0247 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	397.84	55.42
26 05 19 16-0248 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	409.26	55.42
26 05 19 16-0249 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	525.51	65.68
26 05 19 16-0250 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	534.60	65.68
26 05 19 16-0251 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	513.03	65.68
26 05 19 16-0252 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	583.49	73.06
26 05 19 16-0253 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	569.33	73.06
26 05 19 16-0254 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	575.45	73.06
26 05 19 16-0255 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	717.60	82.10
26 05 19 16-0256 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	752.74	82.10
26 05 19 16-0257 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	738.44	90.31
26 05 19 16-0258 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	726.44	90.31
26 05 19 16-0259 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	732.92	90.31
26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)		
26 05 19 16-0261 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	272.35	41.05
26 05 19 16-0262 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	274.11	41.05
26 05 19 16-0263 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	319.65	41.05
26 05 19 16-0264 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	319.18	45.15
26 05 19 16-0265 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	314.56	45.15
26 05 19 16-0266 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	318.74	45.15
26 05 19 16-0267 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	396.47	50.49
26 05 19 16-0268 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	396.37	50.49
26 05 19 16-0269 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	412.08	50.49
26 05 19 16-0270 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	410.17	55.42
26 05 19 16-0271 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	413.41	55.42
26 05 19 16-0272 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	409.99	55.42
26 05 19 16-0273 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	615.27	65.68
26 05 19 16-0274 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	596.03	65.68
26 05 19 16-0275 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	584.57	65.68
26 05 19 16-0276 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	636.91	73.06
26 05 19 16-0277 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	653.64	73.06
26 05 19 16-0278 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	654.86	73.06
26 05 19 16-0279 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	816.06	82.10
26 05 19 16-0280 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	838.12	82.10
26 05 19 16-0281 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	906.37	90.31
26 05 19 16-0282 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	876.06	90.31
26 05 19 16-0283 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	886.40	90.31
26 05 19 16-0284 Accessories (26 05 19 16-0200)		
26 05 19 16-0285 EA 1/2" Straight Steel Cord Connector.....	58.04	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 19 16-0286 EA 1/2" Straight Nylon Cord Connector.....	35.86	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 19 16-0287 EA 1/2" 90 Degree Steel Cord Connector.....	67.19	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector.....	43.85	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	66.43	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	110.29	20.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	43.26	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	69.98	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector.....	60.20	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector.....	36.95	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector.....	73.93	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.22 8.21	13.69
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53 12.31	20.52
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.60 14.37	23.95
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.38 10.26	17.10
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.19 12.32	20.52
26 05 19 16-0301 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.05 8.21	13.69
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.88 6.16	10.26
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.08 10.26	17.10
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.80 8.21	13.69
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.07 12.31	20.52
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.20 14.37	23.95
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.76 10.26	17.10
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.44 12.32	20.52
26 05 19 16-0309 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0310 Single Solid Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	776.23	303.41
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	977.10	356.92
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,217.89	436.43
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,010.08	303.41
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,226.96	356.92
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,481.62	436.43
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	815.71	250.03
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	960.86	300.03
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,191.12	350.05
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,478.79	400.05
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,985.35	500.06
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,715.74	600.07
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,749.71	750.10
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,453.18	850.10
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,298.05	950.12
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,624.79	1,050.13
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,974.93	1,200.15
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,592.29	1,350.17
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,533.30	1,500.18
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,886.67	1,650.20
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,693.64	1,800.22
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,505.19	1,950.24
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,665.20	2,100.25
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	20,922.45	2,250.28
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	24,318.80	2,400.30
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	28,079.88	2,600.32
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	43,153.30	2,900.35
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	61,176.17	3,400.42
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	1,921.73	599.95
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,382.54	700.22
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,968.49	850.10
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,576.43	924.74
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,912.95	974.99
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,584.09	1,074.88
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,011.60	1,120.39
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,592.22	1,225.16
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,201.79	1,300.41
26 05 19 16-0351 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,184.42	1,650.33
26 05 19 16-0352 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	13,924.50	2,450.30
26 05 19 16-0353 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,382.53	700.22
26 05 19 16-0354 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,073.42	850.10
26 05 19 16-0355 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,764.33	1,000.12
26 05 19 16-0356 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,206.65	899.73

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0357 MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,183.99	1,099.13
26 05 19 16-0358 MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,415.73	1,400.42
26 05 19 16-0359 MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,374.13	1,800.85
26 05 19 16-0360 MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,059.00	2,300.40
26 05 19 16-0361 MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,033.22	1,025.13
26 05 19 16-0362 MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,205.97	1,200.15
26 05 19 16-0363 MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,753.77	1,525.19
26 05 19 16-0364 MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,306.59	1,150.14
26 05 19 16-0365 MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,209.60	1,425.18
26 05 19 16-0366 MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,256.52	1,757.71
26 05 19 16-0367 MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,237.42	1,395.42
26 05 19 16-0368 MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,613.66	1,596.07
26 05 19 16-0369 MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,477.17	1,991.74
26 05 19 16-0370 MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,094.77	1,699.71
26 05 19 16-0371 MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,520.09	1,900.74
26 05 19 16-0372 MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,941.81	2,500.30
26 05 19 16-0373 MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,998.09	2,399.92
26 05 19 16-0374 MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,495.56	2,999.12
26 05 19 16-0375 MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,425.61	2,600.82
26 05 19 16-0376 MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,148.33	2,999.12
26 05 19 16-0377 MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,095.81	3,498.93
26 05 19 16-0378 MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,377.87	4,498.68
26 05 19 16-0379 MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,293.30	4,003.87
26 05 19 16-0380 MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	41,825.78	4,498.68
26 05 19 16-0381 MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	52,745.16	5,000.62
26 05 19 16-0382 MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	68,694.01	5,495.92

26 05 19 16-0383 Undergound Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0309)

Note: Direct bury.

26 05 19 16-0384 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,284.80	
26 05 19 16-0385 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,516.08	
26 05 19 16-0386 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,950.77	
26 05 19 16-0387 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,600.74	
26 05 19 16-0388 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,769.51	
26 05 19 16-0389 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,017.69	
26 05 19 16-0390 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,425.47	
26 05 19 16-0391 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,404.62	
26 05 19 16-0392 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,647.46	
26 05 19 16-0393 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,244.98	
26 05 19 16-0394 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,333.36	
26 05 19 16-0395 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,637.03	
26 05 19 16-0396 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,248.53	
26 05 19 16-0397 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,698.20	
26 05 19 16-0398 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,833.16	
26 05 19 16-0399 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,532.21	
26 05 19 16-0400 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,865.89	
26 05 19 16-0401 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	46,135.95	
26 05 19 16-0402 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	74,985.53	
26 05 19 16-0403 MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	952.33	
26 05 19 16-0404 MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,145.80	
26 05 19 16-0405 MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,379.88	
26 05 19 16-0406 MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,688.64	
26 05 19 16-0407 MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,189.93	
26 05 19 16-0408 MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,932.18	
26 05 19 16-0409 MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,009.65	
26 05 19 16-0410 MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,775.15	
26 05 19 16-0411 MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,400.46	
26 05 19 16-0412 MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,087.68	
26 05 19 16-0413 MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,103.07	
26 05 19 16-0414 MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,343.81	
26 05 19 16-0415 MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,494.22	
26 05 19 16-0416 MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,711.12	
26 05 19 16-0417 MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,037.27	
26 05 19 16-0418 MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,410.99	
26 05 19 16-0419 MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,712.09	
26 05 19 16-0420 MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,742.24	
26 05 19 16-0421 MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	800.69	
26 05 19 16-0422 MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,001.34	
26 05 19 16-0423 MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,252.54	
26 05 19 16-0424 MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,782.14	
26 05 19 16-0425 MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,461.45	
26 05 19 16-0426 MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,299.34	
26 05 19 16-0427 MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,759.88	
26 05 19 16-0428 MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,707.12	
26 05 19 16-0429 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,642.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0430 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,567.80	
26 05 19 16-0431 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,052.54	
26 05 19 16-0432 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,845.85	
26 05 19 16-0433 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,793.27	
26 05 19 16-0434 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,826.07	
26 05 19 16-0435 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,017.77	
26 05 19 16-0436 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,129.31	
26 05 19 16-0437 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,854.22	
26 05 19 16-0438 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,590.73	
26 05 19 16-0439 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	44,298.55	
26 05 19 16-0440 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,440.41	
26 05 19 16-0441 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,784.54	
26 05 19 16-0442 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,962.81	
26 05 19 16-0443 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,608.69	
26 05 19 16-0444 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,135.19	
26 05 19 16-0445 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,297.07	
26 05 19 16-0446 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,668.19	
26 05 19 16-0447 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,751.12	
26 05 19 16-0448 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,472.75	
26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors <small>(26 05 19 16-0309)</small>		
26 05 19 16-0450 ACTHH, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0451 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,899.29	820.96
26 05 19 16-0452 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,342.31	930.42
26 05 19 16-0453 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,817.08	985.15
26 05 19 16-0454 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,198.34	1,368.27
26 05 19 16-0455 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,504.35	1,532.19
26 05 19 16-0456 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,680.18	1,697.61
26 05 19 16-0457 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,390.91	1,861.54
26 05 19 16-0458 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,065.25	1,532.19
26 05 19 16-0459 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,315.10	1,697.61
26 05 19 16-0460 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,772.88	1,916.40
26 05 19 16-0461 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,759.77	2,079.49
26 05 19 16-0462 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,027.82	1,697.61
26 05 19 16-0463 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,610.45	1,916.40
26 05 19 16-0464 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,383.18	2,134.64
26 05 19 16-0465 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,830.82	2,299.65
26 05 19 16-0466 ACTHH, Stranded <small>(26 05 19 16-0449)</small>		
26 05 19 16-0467 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,665.86	1,971.54
26 05 19 16-0468 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,335.63	2,243.00
26 05 19 16-0469 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,034.26	2,189.23
26 05 19 16-0470 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,308.83	2,460.97
26 05 19 16-0471 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,283.18	2,736.54
26 05 19 16-0472 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,411.12	3,007.18
26 05 19 16-0473 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,793.40	3,281.24
26 05 19 16-0474 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,647.39	2,626.25
26 05 19 16-0475 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,081.41	2,898.82
26 05 19 16-0476 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,075.30	3,174.66
26 05 19 16-0477 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	19,806.66	3,446.53
26 05 19 16-0478 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,474.01	3,718.13
26 05 19 16-0479 HCFC, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0480 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,686.81	1,368.27
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,134.48	1,537.39
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,736.95	1,689.27
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,672.77	1,537.39
26 05 19 16-0484 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,089.19	1,689.27
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,943.61	1,927.20
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,955.67	1,689.27
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,605.70	1,927.20
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,361.65	2,137.92
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor <small>(26 05 19 16-0449)</small>		
26 05 19 16-0490 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,034.98	1,368.27
26 05 19 16-0491 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,511.59	1,537.39

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0492	MLF		2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,340.26	1,689.27
26 05 19 16-0493	MLF		2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,643.98	1,805.15
26 05 19 16-0494	MLF		2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,098.12	1,913.66
26 05 19 16-0495	MLF		3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,637.96	1,537.39
26 05 19 16-0496	MLF		3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,209.21	1,689.27
26 05 19 16-0497	MLF		3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,505.13	1,927.20
26 05 19 16-0498	MLF		3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,232.43	2,079.49
26 05 19 16-0499	MLF		3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,529.37	2,243.00
26 05 19 16-0500	MLF		3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	11,601.81	2,408.98
26 05 19 16-0501	MLF		3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	15,653.97	2,571.94
26 05 19 16-0502	MLF		4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,328.79	1,689.27
26 05 19 16-0503	MLF		4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,100.51	1,927.20
26 05 19 16-0504	MLF		4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,818.18	2,137.92
26 05 19 16-0505	MLF		4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	11,679.56	2,355.06
26 05 19 16-0506	MLF		4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	14,090.12	2,519.80
26 05 19 16-0507	MLF		4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	18,263.11	2,682.90
26 05 19 16-0508	MLF		4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	23,275.35	2,844.63
26 05 19 16-0509			MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0449)		
26 05 19 16-0510	MLF		2 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	4,007.79	1,368.27
26 05 19 16-0511	MLF		2 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	4,441.08	1,537.39
26 05 19 16-0512	MLF		2 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	5,277.90	1,689.27
26 05 19 16-0513	MLF		3 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	4,751.53	1,537.39
26 05 19 16-0514	MLF		3 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	5,146.56	1,689.27
26 05 19 16-0515	MLF		3 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	6,455.59	1,927.20
26 05 19 16-0516	MLF		4 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	5,868.73	1,689.27
26 05 19 16-0517	MLF		4 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	6,491.84	1,927.20
26 05 19 16-0518	MLF		4 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable	8,818.18	2,137.92
26 05 19 16-0519			FPLP Solid TFN Red Armored Cable (26 05 19 16-0449)		
			Note: Color coded red.		
26 05 19 16-0520	MLF		#18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,963.24	1,039.89
26 05 19 16-0521	MLF		#18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,511.87	1,204.08
26 05 19 16-0522	MLF		#18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,533.01	1,368.27
26 05 19 16-0523	MLF		#18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,328.51	1,532.46
26 05 19 16-0524	MLF		#16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,520.87	1,204.08
26 05 19 16-0525	MLF		#16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,317.20	1,368.27
26 05 19 16-0526	MLF		#16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	6,587.65	1,532.46
26 05 19 16-0527	MLF		#16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,471.45	1,696.65
26 05 19 16-0528			FPLP Solid THHN Red Armored Cable (26 05 19 16-0449)		
			Note: Color coded red.		
26 05 19 16-0529	MLF		#14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,036.81	1,368.27
26 05 19 16-0530	MLF		#14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,174.01	1,532.46
26 05 19 16-0531	MLF		#14/6 With #14 Ground Type THHN FPLP Red Armored Cable	8,049.40	1,696.65
26 05 19 16-0532	MLF		#14/8 With #14 Ground Type THHN FPLP Red Armored Cable	9,281.43	1,860.84
26 05 19 16-0533	MLF		#12/2 With #12 Ground Type THHN FPLP Red Armored Cable	6,260.66	1,532.46
26 05 19 16-0534	MLF		#12/4 With #12 Ground Type THHN FPLP Red Armored Cable	7,574.45	1,696.65
26 05 19 16-0535			FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0449)		
			Note: Color coded red.		
26 05 19 16-0536	MLF		#18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,257.53	1,039.89
26 05 19 16-0537	MLF		#18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	6,757.68	1,532.46
26 05 19 16-0538	MLF		#16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,200.18	1,204.08
26 05 19 16-0539	MLF		#16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,116.68	1,368.27
26 05 19 16-0540	MLF		#16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,406.63	1,696.65
26 05 19 16-0541	MLF		#14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,097.37	1,423.00
26 05 19 16-0542	MLF		#14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,476.86	1,641.93
26 05 19 16-0543			Armored Cable Connectors (26 05 19 16-0449)		
26 05 19 16-0544	EA		3/4" Armored Cable Connector	8.11	3.00
			For Work In Restricted Working Space, Add	2.25	
			For Elevated Installation >10' To 15', Add	0.75	
			For Elevated Installation >15' To 20', Add	1.50	
			For Elevated Installation >20' To 25', Add	1.88	
			For Elevated Installation >25' To 30', Add	2.63	
			For Elevated Installation >30' To 35', Add	3.00	
			For Elevated Installation >35' To 40', Add	3.75	
			For Elevated Installation >40', Add	4.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0545 EA 1" Armored Cable Connector.....	10.82	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Elevated Installation >10' To 15', Add</i>	1.00	
<i>For Elevated Installation >15' To 20', Add</i>	2.00	
<i>For Elevated Installation >20' To 25', Add</i>	2.50	
<i>For Elevated Installation >25' To 30', Add</i>	3.50	
<i>For Elevated Installation >30' To 35', Add</i>	4.00	
<i>For Elevated Installation >35' To 40', Add</i>	5.00	
<i>For Elevated Installation >40', Add</i>	5.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.00	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	13.58	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation >10' To 15', Add</i>	1.25	
<i>For Elevated Installation >15' To 20', Add</i>	2.50	
<i>For Elevated Installation >20' To 25', Add</i>	3.13	
<i>For Elevated Installation >25' To 30', Add</i>	4.38	
<i>For Elevated Installation >30' To 35', Add</i>	5.00	
<i>For Elevated Installation >35' To 40', Add</i>	6.25	
<i>For Elevated Installation >40', Add</i>	6.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,091.87	200.40
<i>For EPR Insulation, Add</i>	51.27	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	119.62	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,223.52	221.90
<i>For EPR Insulation, Add</i>	52.26	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	121.94	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,508.79	277.41
<i>For EPR Insulation, Add</i>	76.30	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	178.03	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,086.41	441.30
<i>For EPR Insulation, Add</i>	125.44	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	292.69	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,905.41	529.56
<i>For EPR Insulation, Add</i>	210.78	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	491.83	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,001.17	614.82
<i>For EPR Insulation, Add</i>	318.89	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	744.08	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,568.50	703.71
<i>For EPR Insulation, Add</i>	366.49	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	855.13	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,828.11	792.59
<i>For EPR Insulation, Add</i>	517.92	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,208.49	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,290.65	882.74
<i>For EPR Insulation, Add</i>	699.80	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,632.86	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,827.05	995.87
<i>For EPR Insulation, Add</i>	874.00	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,039.34	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,699.67	1,104.38
<i>For EPR Insulation, Add</i>	1,098.64	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,563.49	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,903.02	1,232.90
<i>For EPR Insulation, Add</i>	1,372.88	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,203.39	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,577.68	1,370.79
<i>For EPR Insulation, Add</i>	1,567.83	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,658.26	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,500.25	1,503.43
<i>For EPR Insulation, Add</i>	1,649.96	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,849.90	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,386.94	1,652.71
<i>For EPR Insulation, Add</i>	2,026.70	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	4,728.97	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,552.83	1,752.09
<i>For EPR Insulation, Add</i>	2,295.33	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	5,355.76	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,084.72	1,958.25
<i>For EPR Insulation, Add</i>	2,618.85	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	6,110.66	
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,473.13	2,177.89
<i>For EPR Insulation, Add</i>	3,070.86	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	7,165.34	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	31,112.51	2,265.91
<i>For EPR Insulation, Add</i>	3,691.76	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	8,614.10	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,202.26	2,353.79
<i>For EPR Insulation, Add</i>	6,592.71	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	15,382.98	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	64,776.30	2,515.06
<i>For EPR Insulation, Add</i>	8,553.80	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	19,958.87	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0569	MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,912.63 449.80
26 05 19 16-0570	MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,419.89 500.06
26 05 19 16-0571	MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,049.56 600.57
26 05 19 16-0572	MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,620.54 699.83
26 05 19 16-0573	MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,525.54 749.35
26 05 19 16-0574	MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	596.29 250.03
26 05 19 16-0575	MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	743.52 275.04
26 05 19 16-0576	MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	792.33 200.52
26 05 19 16-0577	MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	989.38 239.03
26 05 19 16-0578	MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,234.61 300.67
26 05 19 16-0579	MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,750.85 396.30
26 05 19 16-0580	MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,409.72 478.56
26 05 19 16-0581	MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,219.62 565.57
26 05 19 16-0582	MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,860.04 640.20
26 05 19 16-0583	MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,634.42 716.96
26 05 19 16-0584	MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,548.46 809.10
26 05 19 16-0585	MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,457.14 885.98
26 05 19 16-0586	MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,350.30 979.12
26 05 19 16-0587	MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,776.25 1,035.63
26 05 19 16-0588	MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,502.03 1,165.14
26 05 19 16-0589	MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,374.56 1,239.53
26 05 19 16-0590	MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,328.42 1,403.80
26 05 19 16-0591	MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,433.63 1,553.56
26 05 19 16-0592	MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	18,462.48 1,596.07
26 05 19 16-0593	MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	22,027.86 1,688.58
26 05 19 16-0594	MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	27,465.71 1,987.12
26 05 19 16-0595	MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	42,510.55 2,353.79
26 05 19 16-0596	MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	50,991.50 2,841.85
26 05 19 16-0597	MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,175.96 600.57
26 05 19 16-0598	MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,466.44 699.83
26 05 19 16-0599	MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,841.89 800.72
26 05 19 16-0600	MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,490.84 899.73
26 05 19 16-0601	MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,926.95 1,000.12
26 05 19 16-0602	MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,754.23 1,099.13

26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)

26 05 19 16-0604	MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,123.07 358.42
26 05 19 16-0605	MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,321.75 416.77
26 05 19 16-0606	MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,717.23 534.99
26 05 19 16-0607	MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,049.70 597.41
26 05 19 16-0608	MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,350.25 673.07
26 05 19 16-0609	MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,646.00 742.88
26 05 19 16-0610	MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,075.97 838.39
26 05 19 16-0611	MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,401.33 924.96
26 05 19 16-0612	MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,871.41 1,016.83
26 05 19 16-0613	MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,600.65 1,105.79
26 05 19 16-0614	MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,853.42 1,194.72
26 05 19 16-0615	MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,504.41 1,328.85
26 05 19 16-0616	MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,064.47 1,462.94
26 05 19 16-0617	MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,310.14 1,704.16
26 05 19 16-0618	MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,191.37 1,868.24
26 05 19 16-0619	MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,400.24 1,937.49
26 05 19 16-0620	MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,170.90 2,350.29
26 05 19 16-0621	MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,341.34 443.93
26 05 19 16-0622	MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,509.52 500.06
26 05 19 16-0623	MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,857.65 615.20
26 05 19 16-0624	MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,319.31 754.10
26 05 19 16-0625	MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,854.88 887.74
26 05 19 16-0626	MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,264.06 1,000.50
26 05 19 16-0627	MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,679.46 1,111.26
26 05 19 16-0628	MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,150.69 1,212.40
26 05 19 16-0629	MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,469.92 1,290.28
26 05 19 16-0630	MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,970.19 1,380.55
26 05 19 16-0631	MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,796.88 1,479.56
26 05 19 16-0632	MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,128.36 1,598.33
26 05 19 16-0633	MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,850.77 1,742.96
26 05 19 16-0634	MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,750.89 2,000.25
26 05 19 16-0635	MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,747.31 2,105.01
26 05 19 16-0636	MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,570.98 2,219.27
26 05 19 16-0637	MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,960.24 2,358.55
26 05 19 16-0638	MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,313.50 3,305.41
26 05 19 16-0639	MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,579.16 500.06
26 05 19 16-0640	MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,960.55 615.07
26 05 19 16-0641	MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,433.00 755.09
26 05 19 16-0642	MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,986.93 882.74
26 05 19 16-0643	MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,373.24 995.87
26 05 19 16-0644	MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,795.02 1,104.38
26 05 19 16-0645	MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,328.30 1,212.40
26 05 19 16-0646	MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,692.19 1,290.28
26 05 19 16-0647	MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,235.25 1,379.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,147.62	1,481.43
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,539.24	1,600.45
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,205.21	1,738.96
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,290.69	2,000.25
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,290.49	2,099.38
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,192.00	2,219.27
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,635.13	2,351.42
26 05 19 16-0655 Non-Metallic Sheathed Cable <small>(26 05 19 16-0309)</small>		
26 05 19 16-0656 Indoor Installation <small>(26 05 19 16-0655)</small>		
<small>Note: For NM, NM-B, NMC-B and NMS-B.</small>		
26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,627.38	950.00
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>356.24</i>	
26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,221.58	1,150.14
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>431.32</i>	
26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,988.80	1,272.65
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>477.25</i>	
26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,998.59	1,080.13
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>384.42</i>	
26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,823.36	1,199.90
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>449.98</i>	
26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,624.01	1,340.16
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>502.56</i>	
26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,602.63	1,200.52
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>450.21</i>	
26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,812.90	1,400.42
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>525.16</i>	
26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,613.95	1,600.20
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>600.07</i>	
26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,181.69	1,437.67
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>511.94</i>	
26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,451.33	1,737.72
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>618.83</i>	
26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,364.86	1,637.70
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>581.32</i>	
26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	8,151.15	1,975.24
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>703.21</i>	
26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	14,788.65	2,175.26
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>773.53</i>	
26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,974.16	2,362.80
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>843.85</i>	
26 05 19 16-0672 Direct Burial Cable <small>(26 05 19 16-0655)</small>		
<small>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</small>		
26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,952.35	
26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,900.13	
26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,778.09	
26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,013.39	
26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,193.93	
26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,237.83	
26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,941.00	
26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,977.47	
26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,869.32	
26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	11,886.93	
26 05 19 16-0683 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper	4,094.88	1,204.49
26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper	5,358.00	1,368.27
26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper	6,927.18	1,532.19
26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper	8,683.91	1,642.61
26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper	9,447.77	1,697.61
26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper	11,836.09	1,861.54
26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper	12,891.13	1,916.40
26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper	15,243.31	2,079.49
26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper	16,221.05	2,189.23
26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper	17,388.74	2,299.65
26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper	18,667.71	2,408.98
26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper	23,178.27	2,736.54
26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper	27,876.33	3,067.94
26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper	33,939.10	3,455.29
26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper	41,319.21	3,843.47
26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper	46,185.82	4,289.25

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum.....	4,388.23	1,537.39
26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum.....	4,923.46	1,689.27
26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum.....	5,469.36	1,849.08
26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum.....	5,715.85	1,927.20
26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum.....	6,807.29	2,280.50
26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum.....	7,200.86	2,400.49
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum.....	8,467.09	2,736.54
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum.....	8,942.73	2,880.62
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	10,297.04	3,040.56
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum.....	10,103.64	3,257.85
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	10,647.59	3,420.68
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	11,419.55	3,581.85
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	12,178.21	3,800.78
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	12,976.87	4,108.92
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	13,626.17	4,275.84
26 05 19 16-0716 SER Cable Copper, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper.....	13,718.10	1,971.54
26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper.....	15,064.15	2,134.64
26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper.....	18,853.52	2,408.98
26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper.....	21,687.15	2,626.25
26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper.....	25,319.36	3,007.18
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	31,007.37	3,446.53
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	39,320.21	3,718.13
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	45,523.38	4,158.85
26 05 19 16-0725 SER Cable Aluminum, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum.....	5,697.32	1,840.18
26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum.....	6,185.98	1,971.54
26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum.....	6,871.35	2,134.64
26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum.....	8,609.77	2,626.25
26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum.....	10,252.15	3,007.18
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	11,618.21	3,446.53
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	12,898.05	3,718.13
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	14,629.84	4,158.85
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	16,548.56	4,634.19
26 05 19 16-0735 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0736 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,209.46	606.45
For Work In Restricted Working Space, Add	303.23	
26 05 19 16-0737 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,386.12	678.39
For Work In Restricted Working Space, Add	339.19	
26 05 19 16-0738 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,438.17	678.34
For Work In Restricted Working Space, Add	339.19	
26 05 19 16-0739 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,801.28	850.83
For Work In Restricted Working Space, Add	425.42	
26 05 19 16-0740 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,253.19	1,036.81
For Work In Restricted Working Space, Add	518.41	
26 05 19 16-0741 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,553.14	1,140.14
For Work In Restricted Working Space, Add	570.07	
26 05 19 16-0742 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,010.76	1,295.48
For Work In Restricted Working Space, Add	647.74	
26 05 19 16-0743 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,784.03	1,583.44
For Work In Restricted Working Space, Add	791.72	
26 05 19 16-0744 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,289.01	1,727.47
For Work In Restricted Working Space, Add	863.73	
26 05 19 16-0745 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,965.69	1,781.47
For Work In Restricted Working Space, Add	890.74	
26 05 19 16-0746 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,107.92	2,225.53
For Work In Restricted Working Space, Add	1,112.76	
26 05 19 16-0747 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,296.64	2,600.94
For Work In Restricted Working Space, Add	1,300.47	
26 05 19 16-0748 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,312.27	638.83
For Work In Restricted Working Space, Add	319.16	
26 05 19 16-0749 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,509.51	714.09
For Work In Restricted Working Space, Add	357.05	
26 05 19 16-0750 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,754.58	822.10
For Work In Restricted Working Space, Add	411.05	
26 05 19 16-0751 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,971.72	895.61
For Work In Restricted Working Space, Add	447.81	
26 05 19 16-0752 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,475.42	1,091.39
For Work In Restricted Working Space, Add	545.69	
26 05 19 16-0753 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,816.38	1,200.15
For Work In Restricted Working Space, Add	600.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0754 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,337.30 681.83	1,363.67
26 05 19 16-0755 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,209.03 833.35	1,666.71
26 05 19 16-0756 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,792.75 909.11	1,818.22
26 05 19 16-0757 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,621.09 937.61	1,875.23
26 05 19 16-0758 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,902.63 1,171.27	2,342.54
26 05 19 16-0759 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,265.22 1,368.92	2,737.84
26 05 19 16-0760 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,413.00 333.42	666.83
26 05 19 16-0761 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,670.04 375.05	750.10
26 05 19 16-0762 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,949.35 428.68	857.36
26 05 19 16-0763 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,177.65 461.68	923.37
26 05 19 16-0764 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,862.29 565.94	1,131.89
26 05 19 16-0765 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,278.64 625.20	1,250.15
26 05 19 16-0766 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,969.38 697.59	1,395.17
26 05 19 16-0767 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,741.29 833.35	1,666.46
26 05 19 16-0768 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,673.98 968.00	1,936.49
26 05 19 16-0769 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,015.08 1,132.26	2,264.03
26 05 19 16-0770 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,114.69 1,265.03	2,530.06
26 05 19 16-0771 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,740.92 1,478.43	2,956.86
26 05 19 16-0772 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,621.87 357.05	714.09
26 05 19 16-0773 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,913.72 394.92	790.10
26 05 19 16-0774 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,307.67 454.56	909.12
26 05 19 16-0775 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,588.51 483.81	967.62
26 05 19 16-0776 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,365.76 576.82	1,153.65
26 05 19 16-0777 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,129.78 681.83	1,363.67
26 05 19 16-0778 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,976.98 769.22	1,538.44
26 05 19 16-0779 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,898.62 882.49	1,764.97
26 05 19 16-0780 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,941.70 1,000.25	2,000.50
26 05 19 16-0781 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,805.35 1,169.02	2,338.04
26 05 19 16-0782 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,206.29 1,366.29	2,732.59
26 05 19 16-0783 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,301.73 1,596.95	3,193.89
26 05 19 16-0784 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,894.78 375.05	750.10
26 05 19 16-0785 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,322.32 411.05	822.60
26 05 19 16-0786 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,804.64 468.81	937.62
26 05 19 16-0787 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,232.85 508.56	1,017.13
26 05 19 16-0788 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,339.61 638.33	1,276.66
26 05 19 16-0789 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,113.82 714.47	1,428.92
26 05 19 16-0790 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,959.57 833.35	1,666.71
26 05 19 16-0791 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,020.75 953.00	1,905.99
26 05 19 16-0792 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,290.24 1,080.13	2,160.27
26 05 19 16-0793 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,589.23 1,262.41	2,524.81
26 05 19 16-0794 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,265.67 1,475.43	2,950.87
26 05 19 16-0795 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	14,821.61 1,724.84	3,449.68

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16-0796	ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0797	ACSR Cable <small>(26 05 19 16-0796)</small>		
26 05 19 16-0798	MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,689.77	613.56
26 05 19 16-0799	MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,768.86	637.08
26 05 19 16-0800	MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,862.75	661.61
26 05 19 16-0801	MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,942.65	685.57
26 05 19 16-0802	MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,065.25	708.82
26 05 19 16-0803	MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,366.07	803.52
26 05 19 16-0804	MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,676.59	896.09
26 05 19 16-0805	MLF 1/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,005.20	989.94
26 05 19 16-0806	MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	3,723.26	1,272.18
26 05 19 16-0807	MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	4,257.05	1,459.32
26 05 19 16-0808	All Aluminum Conductors <small>(26 05 19 16-0796)</small>		
26 05 19 16-0809	MLF 795.0 ACSR Conductor Aluminum.....	32,001.65	11,950.15
26 05 19 16-0810	Single Conductor Installed On Poles <small>(26 05 19 16-0011)</small>		
26 05 19 16-0811	Bare Stranded Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0812	MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,548.34	519.84
26 05 19 16-0813	MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,815.99	566.63
26 05 19 16-0814	MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,085.15	613.98
26 05 19 16-0815	MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,558.50	661.61
26 05 19 16-0816	MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,115.07	709.39
26 05 19 16-0817	MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,468.73	850.86
26 05 19 16-0818	MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,136.70	945.13
26 05 19 16-0819	MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,863.62	1,037.71
26 05 19 16-0820	MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,870.87	1,230.79
26 05 19 16-0821	MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,554.70	1,415.08
26 05 19 16-0822	MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,251.58	1,603.77
26 05 19 16-0823	MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,982.66	1,890.13
26 05 19 16-0824	MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,277.91	1,989.65
26 05 19 16-0825	MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,595.23	2,083.64
26 05 19 16-0826	MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,345.20	2,169.12
26 05 19 16-0827	MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	21,398.60	2,261.69
26 05 19 16-0828	Insulated Stranded Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0829	MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,675.90	519.84
26 05 19 16-0830	MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,980.58	566.63
26 05 19 16-0831	MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,410.06	613.98
26 05 19 16-0832	MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,620.01	661.61
26 05 19 16-0833	MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,208.90	709.39
26 05 19 16-0834	MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,333.22	850.86
26 05 19 16-0835	MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,123.17	945.13
26 05 19 16-0836	MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,052.30	1,037.71
26 05 19 16-0837	MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,291.46	1,230.79
26 05 19 16-0838	MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,747.06	1,415.08
26 05 19 16-0839	MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,314.58	1,603.77
26 05 19 16-0840	MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,597.16	1,890.13
26 05 19 16-0841	MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,298.32	1,989.65
26 05 19 16-0842	MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,684.98	2,083.64
26 05 19 16-0843	MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,590.48	2,169.12
26 05 19 16-0844	MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	19,793.35	2,261.69
26 05 19 16-0845	Bare Solid Conductor <small>(26 05 19 16-0810)</small>		
26 05 19 16-0846	MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,548.34	519.84
26 05 19 16-0847	MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,085.15	613.98
26 05 19 16-0848	MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,558.50	661.61
26 05 19 16-0849	MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	3,076.30	709.39

26 05 23 Control-Voltage Electrical Power Cables (26 05)**26 05 23 00-0001 Cable For HVAC System Controls** (26 05 23)**26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt** (26 05 23 00-0001)

Note: For surface or conduit installation.

26 05 23 00-0003	MLF #20/2 Conductor, Low Volt Thermostat Cable	539.28	159.40
26 05 23 00-0004	MLF #20/3 Conductor, Low Volt Thermostat Cable	615.05	167.90
26 05 23 00-0005	MLF #20/4 Conductor, Low Volt Thermostat Cable	666.42	177.52
26 05 23 00-0006	MLF #20/5 Conductor, Low Volt Thermostat Cable	797.27	185.03
26 05 23 00-0007	MLF #20/6 Conductor, Low Volt Thermostat Cable	835.69	193.78
26 05 23 00-0008	MLF #20/7 Conductor, Low Volt Thermostat Cable	919.20	201.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable	991.78	209.90
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable	1,076.37	218.28
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable	1,157.57	224.83
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable	585.07	159.40
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable	696.74	167.90
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable	796.02	177.52
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable	850.77	185.03
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable	943.16	193.78
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable	968.55	201.83
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable	1,067.09	209.90
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable	1,257.05	218.28
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable	1,380.43	224.83

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor	680.84	242.62
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	912.78	242.62
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	1,145.71	292.26
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	1,602.01	292.26
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	2,173.88	352.91
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	3,460.13	352.91
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	4,015.38	424.60
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,713.75	424.60
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	6,642.89	534.88
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	8,208.38	534.88
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	8,684.33	711.34
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	11,192.73	711.34
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	11,212.64	821.63
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	15,175.44	821.63
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	20,757.33	1,014.63

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,323.10	330.86
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,395.38	330.86
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,802.32	330.86
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	2,032.31	573.48
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,775.05	573.48
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,955.14	573.48
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,799.93	1,003.59
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,875.56	1,003.59
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,912.72	1,003.59
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	8,275.18	1,003.59
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	9,791.32	1,312.39
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	11,886.11	1,312.39
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	13,877.85	1,312.39
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	16,171.36	2,040.28
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	21,208.25	2,040.28

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	680.84	242.62
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	912.78	242.62
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,145.71	292.26
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,602.01	292.26
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	2,173.88	352.91
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,460.13	352.91
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,713.75	424.60
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	8,684.33	562.45

26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	644.45	292.26
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	696.42	292.26
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	776.11	352.91
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	934.30	352.91
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,039.98	424.60
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	1,190.57	424.60
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	1,349.76	534.88
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	1,530.84	534.88
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	1,830.72	711.34
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	2,023.57	711.34
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	2,319.99	821.63
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	2,579.54	821.63
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	3,056.00	1,014.63

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0058			Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059	MLF		8 AWG Aluminum Bare Single Solid Conductor	644.45	292.26
26 05 26 00-0060	MLF		6 AWG Aluminum Bare Single Solid Conductor	696.42	292.26
26 05 26 00-0061	MLF		4 AWG Aluminum Bare Single Solid Conductor	776.11	352.91
26 05 26 00-0062	MLF		2 AWG Aluminum Bare Single Solid Conductor	934.30	352.91
26 05 26 00-0063	MLF		1 AWG Aluminum Bare Single Solid Conductor	995.47	562.45
26 05 26 00-0064	MLF		1/0 AWG Aluminum Bare Single Solid Conductor.....	1,190.57	562.45
26 05 26 00-0065	MLF		2/0 AWG Aluminum Bare Single Solid Conductor.....	1,239.51	534.88
26 05 26 00-0066	MLF		3/0 AWG Aluminum Bare Single Solid Conductor.....	1,308.83	534.88
26 05 26 00-0067	MLF		4/0 AWG Aluminum Bare Single Solid Conductor.....	1,830.72	711.34
26 05 26 00-0068	MLF		250 MCM Aluminum Bare Single Solid Conductor.....	2,023.57	711.34
26 05 26 00-0069	MLF		300 MCM Aluminum Bare Single Solid Conductor.....	2,319.99	821.63
26 05 26 00-0070	MLF		350 MCM Aluminum Bare Single Solid Conductor.....	2,579.54	821.63
26 05 26 00-0071	MLF		500 MCM Aluminum Bare Single Solid Conductor.....	3,056.00	1,014.63
26 05 26 00-0072			Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073	LF		10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.02	0.94
26 05 26 00-0074	LF		16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.34	1.04
26 05 26 00-0075	LF		24 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.94	1.19
26 05 26 00-0076	LF		26 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.98	1.22
26 05 26 00-0077	LF		28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.17	1.27
26 05 26 00-0078			Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
			Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079	EA		100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	135.10	34.21
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 05 26 00-0080	EA		225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	223.81	41.05
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 26 00-0081	EA		225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	280.54	41.05
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 26 00-0082	EA		225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	336.51	41.05
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 26 00-0083	EA		400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	299.27	44.47
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.79	
26 05 26 00-0084	EA		400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	380.89	44.47
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.79	
26 05 26 00-0085	EA		400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	451.82	44.47
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.79	
26 05 26 00-0086	EA		600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	384.19	56.44
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.86	
26 05 26 00-0087	EA		800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	462.30	68.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 05 26 00-0088			Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089	EA		1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit	193.42	75.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.76	
26 05 26 00-0090	EA		1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit	238.25	75.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.63	
26 05 26 00-0091	EA		2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit	336.36	116.31
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.20	
26 05 26 00-0092	EA		5" To 6" Conductor, Bonding Jumper, Metallic Conduit	483.65	116.31
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.02	
26 05 26 00-0093			Ground Rods (26 05 26)		
26 05 26 00-0094			Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095	EA		1/2" Diameter x 8' Long Copper-Clad Ground Rods	113.21	102.62
26 05 26 00-0096	EA		5/8" Diameter x 8' Long Copper-Clad Ground Rods	117.54	102.62
26 05 26 00-0097	EA		3/4" Diameter x 8' Long Copper-Clad Ground Rods	135.05	102.62
26 05 26 00-0098	EA		1/2" Diameter x 10' Long Copper-Clad Ground Rods	132.98	102.62
26 05 26 00-0099	EA		5/8" Diameter x 10' Long Copper-Clad Ground Rods	138.40	102.62
26 05 26 00-0100	EA		3/4" Diameter x 10' Long Copper-Clad Ground Rods	160.28	102.62
26 05 26 00-0101			Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102	EA		2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	302.15	102.62
26 05 26 00-0103	EA		2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	370.91	102.62
26 05 26 00-0104	EA		2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	549.93	102.62
26 05 26 00-0105			Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106			Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107	EA		8" Diameter x 24" Deep Precast Ground Access Well	240.57	
			Note: With cast iron grate.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 26 00-0108	EA 10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	250.03	
	26 05 26 00-0109	EA 12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	707.07	
	26 05 26 00-0110	EA 18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	716.53	
26 05 26 00-0111		Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0112	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	667.42	
	26 05 26 00-0113	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	788.72	
	26 05 26 00-0114	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,491.40	
	26 05 26 00-0115	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	636.56	
	26 05 26 00-0116	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	750.85	
	26 05 26 00-0117	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,428.89	
	26 05 26 00-0118	EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	345.13	
	26 05 26 00-0119	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	368.93	
	26 05 26 00-0120	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	390.41	
	26 05 26 00-0121	EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	258.81	
	26 05 26 00-0122	EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	393.81	
	26 05 26 00-0123	EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	713.92	
	26 05 26 00-0124	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	957.86	
	26 05 26 00-0125	EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	567.74	
	26 05 26 00-0126	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	838.38	
	26 05 26 00-0127	EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	896.04	
	26 05 26 00-0128	EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	1,091.57	
	26 05 26 00-0129	EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	468.73	
	26 05 26 00-0130	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	840.92	
	26 05 26 00-0131	EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	906.62	
26 05 26 00-0132		Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0133	EA 12" x 12" x 12" Polymer Concrete Ground Access Well	447.40	
	26 05 26 00-0134	EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	490.26	
	26 05 26 00-0135	EA 12" x 12" x 18" Polymer Concrete Ground Access Well	492.63	
	26 05 26 00-0136	EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	539.74	
	26 05 26 00-0137	EA 12" x 12" x 24" Polymer Concrete Ground Access Well	539.55	
	26 05 26 00-0138	EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	591.35	
	26 05 26 00-0139	EA 13" x 24" x 18" Polymer Concrete Ground Access Well	717.79	
	26 05 26 00-0140	EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	788.35	
26 05 26 00-0141		High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>		
	26 05 26 00-0142	EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	166.16	
	26 05 26 00-0143	EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	230.78	
26 05 26 00-0144		Ground Rod Clamps And Fittings <small>(26 05 26)</small>		
26 05 26 00-0145		Bronze Ground Rod Clamp <small>(26 05 26 00-0144)</small>		
	26 05 26 00-0146	EA 1/2" Bronze Ground Rod Clamp	26.66	15.46
	26 05 26 00-0147	EA 5/8" Bronze Ground Rod Clamp	27.76	15.46
	26 05 26 00-0148	EA 3/4" Bronze Ground Rod Clamp	29.31	15.46
26 05 26 00-0149		Bronze Pipe Clamps <small>(26 05 26 00-0144)</small>		
	26 05 26 00-0150	EA 1/2" To 1" Bronze Pipe Ground Clamps.....	36.43	25.72
	26 05 26 00-0151	EA 1-1/4" To 2" Bronze Ground Clamps For Pipe.....	45.96	30.79
	26 05 26 00-0152	EA 2-1/2" To 3" Bronze Ground Clamps For Pipe.....	66.33	35.99
	26 05 26 00-0153	EA 2-1/2" To 4" Bronze Ground Clamps For Pipe.....	81.61	46.25
	26 05 26 00-0154	EA 4" To 6" Bronze Ground Clamps For Pipe.....	124.10	66.77

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0155 Grounding Fittings <small>(26 05 26 00-0144)</small>		
26 05 26 00-0156 Embedded Fittings <small>(26 05 26 00-0155)</small>		
26 05 26 00-0157 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	179.36	
26 05 26 00-0158 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	189.26	
26 05 26 00-0159 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded.....	206.84	
26 05 26 00-0160 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	179.64	
26 05 26 00-0161 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	215.28	
26 05 26 00-0162 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	252.36	
26 05 26 00-0163 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	284.03	
26 05 26 00-0164 Ground Rod Receptacle <small>(26 05 26 00-0155)</small>		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle.....	385.64	142.30
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle.....	402.33	146.31
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle.....	419.46	150.29
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels <small>(26 05 26 00-0155)</small>		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit.....	87.07	34.21
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit.....	83.81	34.21
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit.....	95.40	34.21
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit.....	94.59	34.21
26 05 26 00-0173 Insulated Grounding Bars <small>(26 05 26 00-0144)</small>		
26 05 26 00-0174 EA 1/2" x 4" x 10" Insulated Ground Bar.....	351.78	34.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20".....	367.87	34.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 05 26 00-0176 Ground Conductor Bonding <small>(26 05 26)</small>		
26 05 26 00-0177 Ground Conductor Bonding <small>(26 05 26 00-0176)</small>		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	152.76	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	166.44	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	180.12	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	262.21	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0183 Tee, Wye Or Cross Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	173.28	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross.....	200.64	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross.....	248.54	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	303.26	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0188 Grounding Equipment <small>(26 05 26)</small>		
26 05 26 00-0189 Special Grounding Equipment <small>(26 05 26 00-0188)</small>		
26 05 26 00-0190 Ground Reels And Ground Bus <small>(26 05 26 00-0189)</small>		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable.....	779.58	
26 05 26 00-0192 Copper Bars <small>(26 05 26 00-0189)</small>		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar.....	45.77	
26 05 26 00-0194 Phenolic Insulators <small>(26 05 26 00-0189)</small>		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators.....	34.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 26 00-0196 Grounding Studs <small>(26 05 26 00-0189)</small>		
26 05 26 00-0197 EA Ball Grounding Stud.....	50.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 26 00-0198 Equipment Ground Bar Kits <small>(26 05 26 00-0189)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit.....	38.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit.....	48.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit.....	56.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit.....	95.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 26 00-0203 Panelboard Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0204 EA Panelboard Ground Bar Kit.....	134.13	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 26 00-0205 Circuit Breaker Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit.....	31.72	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit.....	31.20	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit.....	32.06	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit.....	36.36	6.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit.....	41.33	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit.....	45.62	8.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.62	
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit.....	51.09	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.85	
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit.....	59.17	11.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.50	
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	63.02	8.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.62	
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	69.87	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.85	
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	78.12	11.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.50	

26 20 Low-Voltage Electrical Distribution (26)

26 24 Switchboards and Panelboards (26 20)

26 24 13 Switchboards (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)

26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)

Note: Copper bus, non-metering type, with fuses.

26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,412.54	1,196.82
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,865.79	1,265.92
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,662.34	1,436.00
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,251.57	1,539.44
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	12,973.18	1,641.37
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	14,437.77	1,745.23
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,260.99	1,196.82
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,653.91	1,265.92
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,168.22	1,437.23
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,404.34	1,539.44
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,973.18	1,643.02
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,437.77	1,745.23
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	17,262.03	1,824.58
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	19,537.51	1,954.71
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	22,994.66	2,107.14
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,076.35	1,060.41
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,382.87	1,128.96
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,877.00	1,299.58
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,167.35	1,354.17
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,423.29	1,403.03
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,835.18	1,504.28
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,225.13	1,607.45

26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	358.82	41.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker	527.19	65.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.41	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker	1,397.67	119.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.83	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker	2,463.21	155.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.59	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker	4,421.52	383.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.83	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker	7,004.74	383.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.83	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker	11,376.59	682.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	409.66	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,229.23	1,552.98
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,932.28	1,552.98
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,064.37	2,018.20
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	11,367.82	2,018.20
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,965.60	1,060.41
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	4,398.80	1,128.96
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,600.63	1,299.58
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	7,168.29	1,401.93
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	4,771.03	1,060.41
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	5,958.02	1,128.96
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	8,273.44	1,299.58
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	11,730.66	1,401.93
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	13,748.26	1,573.51
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	2,834.87	923.45
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,163.04	992.13
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,712.53	1,162.76
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,985.27	1,217.35
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,247.80	1,265.92
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,603.19	1,354.17
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,949.35	1,436.00
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,142.24	1,778.75
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,862.25	1,949.79
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	8,012.81	2,103.71
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker	197.46	36.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.76	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker	314.54	60.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.12	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker	925.54	84.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.49	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker	2,616.98	108.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.85	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker	4,152.89	263.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.02	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker	5,867.01	263.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.02	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker	9,696.85	502.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	301.74	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,414.22	1,196.82
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,863.92	1,265.92
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,659.93	1,436.00
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,248.80	1,539.44
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,966.87	1,641.37
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	14,437.77	1,745.23
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,262.67	1,196.82
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,652.04	1,265.92
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,168.22	1,437.23
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,401.57	1,539.44
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,970.01	1,643.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,437.77	1,745.23
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,210.08	1,060.41
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,570.99	1,128.96
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,158.53	1,299.58
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,460.35	1,354.17
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,750.86	1,403.03
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,151.16	1,504.28
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,557.20	1,607.45
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,571.05	1,826.64
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,249.02	1,954.58
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	8,493.16	2,100.29
26 24 13 00-0092 Branch Breaker Units <small>(26 24 13 00-0068)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	358.82	41.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	527.19	65.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.41	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....	1,397.67	119.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.83	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,463.21	155.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.59	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,421.52	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	7,004.74	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	11,376.59	682.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.66	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		
26 24 13 00-0101 Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,750.72	1,641.37
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,293.99	1,745.23
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,781.90	1,948.00
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,585.82	2,085.79
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,191.19	1,641.37
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,522.59	1,745.23
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,780.99	1,950.20
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,494.21	2,085.79
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,132.28	2,224.13
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,671.98	2,362.32
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,210.08	1,060.41
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,570.99	1,128.96
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,158.53	1,299.58
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,460.35	1,354.17
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,750.86	1,403.03
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,151.16	1,504.28
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,557.20	1,607.45
26 24 13 00-0119 Branch Breaker Units <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	728.84	41.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	845.58	65.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.41	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,533.63	119.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.83	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,463.21	155.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.59	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	5,905.02	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	6,037.54	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	9,708.94	682.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.66	
26 24 13 00-0127 Fusible Branch Circuit Switch <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	771.00	107.41
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	768.42	107.41
For Electrical Interlock Kit, Add	300.86	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	768.42 300.86	107.41
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,197.62 300.86	141.62
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,197.62 300.86	141.62
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	876.48 288.22	105.36
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,262.97 288.22	105.36
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	3,250.32	283.92
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	982.83 300.86	121.09
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	980.25 300.86	121.09
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	980.25 300.86	121.09
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,470.37 300.86	162.14
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,470.37 300.86	162.14
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,058.89 300.86	119.04
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,688.94 288.22	119.04
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	4,333.81	317.85
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	6,174.35	407.20
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	11,428.01	551.69
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,372.98 300.86	121.09
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,370.37 300.86	121.09
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,372.98 300.86	121.09
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,059.05 300.86	162.14
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,102.61 300.86	162.14
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,435.60 300.86	212.09
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,479.09 300.86	119.04
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,222.40 288.22	119.04
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	5,415.91 288.22	317.85
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	6,583.93	407.20
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	11,428.01	551.69
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0164)		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,067.02	1,258.80
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,629.59	1,258.80
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,042.69	1,600.87
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,484.72	1,600.87
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,469.29	1,457.20
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,014.38	1,457.20
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,484.72	1,806.12
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,881.82	1,806.12



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,091.90	1,778.75
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,651.93	1,778.75
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,153.30	2,189.23
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,735.04	2,189.23
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,967.17	1,949.79
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,646.79	1,949.79
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,246.05	2,408.16
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,752.81	2,408.16
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,220.84	1,956.62
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,960.04	2,202.91
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,070.63	2,202.91
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,339.12	2,326.05
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,011.40	2,202.91
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,120.34	2,202.91
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,388.83	2,326.05
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,186.82	2,326.05
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,388.83	2,326.05
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,485.79	2,326.05
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	618.47	164.19
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	698.06	164.19
26 24 13 00-0201 EA Cable Supports In Pull Box.....	241.07	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>22.81</i>
26 24 13 00-0202 Underground Pull Sections <small>(26 24 13 00-0164)</small>		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal	608.94	191.56
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.24	246.29
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.24	246.29
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	781.26	191.56
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,104.81	280.50
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,266.31	280.50
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,334.25	362.59
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,417.04	362.59
26 24 13 00-0211 Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,807.58	1,140.18
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,262.25	1,239.38
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,610.05	1,583.63
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,227.62	1,727.57
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,706.91	1,839.09
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section	5,589.66	1,000.21
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,321.42	950.13
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated	3,672.14	1,030.31
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	5,833.97	1,140.18
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	6,311.30	1,143.19
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	6,950.80	1,276.32
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	192.02	68.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>41.78</i>
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	233.38	69.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>49.36</i>
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	1,006.39	82.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>106.34</i>
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,650.96	177.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>148.08</i>
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	673.28	246.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>85.52</i>
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	1,819.48	142.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		<i>106.34</i>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0229			Switchboard, Structure Per Section Copper, 480 Volt <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230	EA		225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	2,493.24	593.83
26 24 13 00-0231	EA		400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,531.36	803.03
26 24 13 00-0232	EA		600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,989.55	977.35
26 24 13 00-0233	EA		800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	5,080.69	1,368.27
26 24 13 00-0234	EA		1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,301.27	1,710.34
26 24 13 00-0235	EA		1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,881.49	1,710.34
26 24 13 00-0236	EA		2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	8,556.77	2,280.50
26 24 13 00-0237	EA		2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	9,669.32	2,280.50
26 24 13 00-0238	EA		3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	11,382.39	2,714.79
26 24 13 00-0239	EA		4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	13,429.60	2,714.79
26 24 13 00-0240			Main Devices <small>(26 24 13)</small>		
26 24 13 00-0241			Power Circuit Breakers <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242			DSL Breaker With Current Limiters And Amptector <small>(26 24 13 00-0241)</small>		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA		50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	8,515.25	1,436.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	860.18	
26 24 13 00-0244	EA		50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	15,457.86	2,394.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,435.25	
26 24 13 00-0245	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	34,312.06	4,022.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,392.08	
26 24 13 00-0246	EA		4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	55,349.13	6,512.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,977.53	
26 24 13 00-0247	EA		Ground-Fault Trip All Power Breakers - Factory Installed.....	2,786.02	
26 24 13 00-0248	EA		Key Interlock All Power Breakers - Factory Installed.....	359.81	
26 24 13 00-0249	EA		Short Time Delay Selective Trip - Factory Installed.....	472.04	
26 24 13 00-0250	EA		Shunt Trip Manually Open Breakers - Factory Installed.....	340.00	
26 24 13 00-0251			DSL Breaker Electrical Operated And Amptector <small>(26 24 13 00-0241)</small>		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252	EA		50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	9,916.90	1,505.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	907.34	
26 24 13 00-0253	EA		50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	18,317.63	2,531.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,511.34	
26 24 13 00-0254	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	38,444.32	4,173.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,515.20	
26 24 13 00-0255	EA		4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	59,565.98	6,841.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,205.75	
26 24 13 00-0256			DS Breakers With Amptector Static Trip, Manually Operated <small>(26 24 13 00-0241)</small>		
			Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257	EA		50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	6,840.02	1,313.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	789.38	
26 24 13 00-0258	EA		50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	12,438.20	2,202.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,315.64	
26 24 13 00-0259	EA		2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	18,580.30	3,694.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,192.74	
26 24 13 00-0260	EA		1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	31,987.31	5,951.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,651.97	
26 24 13 00-0261	EA		4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	52,131.37	9,714.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,072.20	
26 24 13 00-0262			DS Breakers With Amptector Static Trip, Electrically Operated <small>(26 24 13 00-0241)</small>		
			Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263	EA		50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	7,962.87	1,258.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	752.90	
26 24 13 00-0264	EA		50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	14,771.27	2,107.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,254.53	
26 24 13 00-0265	EA		2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	21,218.07	3,502.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,094.29	
26 24 13 00-0266	EA		1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	35,038.84	5,705.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,490.48	
26 24 13 00-0267	EA		4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	55,015.19	9,783.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,830.70	
26 24 13 00-0268			Molded Case Circuit Breakers Conventional <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269	EA		70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	3,099.79	1,149.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	662.06	
26 24 13 00-0270	EA		125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,386.01	1,149.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	720.14	
26 24 13 00-0271	EA		300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,859.44	1,368.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	789.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,727.36	1,368.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	855.17	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	8,303.14	1,641.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	937.17	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	13,135.33	1,641.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,036.57	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	356.50	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	82.52	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt <small>(26 24 13 00-0240)</small>		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	599.26	99.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.49	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	711.98	131.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.94	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,994.72	198.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.91	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,631.97	248.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.16	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,197.06	333.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.04	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,869.85	427.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.55	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,211.74	651.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	390.93	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,211.74	651.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	390.93	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,711.77	912.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	547.31	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	10,951.34	1,368.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	820.96	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker <small>(26 24 13 00-0240)</small>		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,003.65	593.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	356.32	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,116.55	650.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	390.19	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,770.58	977.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	586.40	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	13,184.65	1,368.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	820.96	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	13,475.26	1,513.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	908.15	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	18,041.27	2,714.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,628.89	
26 24 13 00-0295 Branch Or Distribution Devices <small>(26 24 13)</small>		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers <small>(26 24 13 00-0295)</small>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	549.30	49.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	561.28	61.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,309.62	73.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,892.62	95.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.63	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,659.32	118.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.81	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,474.07	138.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.36	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	5,272.90	155.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.26	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers <small>(26 24 13 00-0295)</small>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	380.15	36.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	489.41	49.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,298.34	61.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,040.62	68.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.15	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,166.17	88.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.52	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,869.05	129.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.20	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0311 Meter Devices And Instrumentation <small>(26 24 13)</small> Note: Factory installed accessories.		
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices <small>(26 24 13 00-0311)</small>		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer	430.78	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer	622.23	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer	732.82	
26 24 13 00-0316 Instruments <small>(26 24 13 00-0311)</small>		
26 24 13 00-0317 EA AC Voltmeter.....	587.57	
26 24 13 00-0318 EA AC Ammeter	587.57	
26 24 13 00-0319 EA AC Wattmeter	1,569.61	
26 24 13 00-0320 EA Variometer	1,772.62	
26 24 13 00-0321 EA Power Factor Meter	1,416.12	
26 24 13 00-0322 EA Frequency Meter.....	1,563.01	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer	528.16	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,988.84	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	3,327.38	
26 24 13 00-0326 EA Weatherproof, Modify Meter	3,317.42	
26 24 13 00-0327 EA Control Switch Resistor Type 130 V	80.82	
26 24 13 00-0328 EA Metering Instrument: Voltage, Amperes And Watt Hour	4,013.66	
26 24 16 Panelboards <small>(26 24)</small>		
26 24 16 00-0001 Branch Circuit Panelboard <small>(26 24 16)</small> Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002 Assembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0004 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,338.25	389.95
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0005 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,528.67	389.95
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0006 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,742.11	540.47
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0007 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,956.32	540.47
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0008 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,159.41	677.30
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0009 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,367.70	677.30
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0010 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,568.55	779.92
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0011 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,095.20	998.84
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0012 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,264.81	998.84
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0013 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,428.39	1,142.51
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0014 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,690.48	1,142.51
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0015 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,850.42	1,286.17
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,091.39	1,286.17
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	



Electrical	26
Low-Voltage Electrical Distribution	26 20
Switchboards and Panelboards	26 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0017	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,242.80	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0018	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,479.66	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0019	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	4,701.85	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0020	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,851.62	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0021	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,080.04	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0022			120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,559.27	376.28
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0024	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,752.65	376.28
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0025	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,207.57	643.09
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0026	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,500.36	643.09
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0027	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,707.41	786.75
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0028	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,923.77	786.75
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0029	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,115.03	944.11
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0030	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,761.20	944.11
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0031	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,933.17	1,156.18
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0032	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,120.65	1,156.18
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0033	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,326.76	1,299.86
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0034	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,492.36	1,299.86
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0035	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,669.47	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0036	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,859.83	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0037	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,065.61	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0038	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,289.46	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0039	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,534.67	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0040	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,684.32	1,778.75
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0041			120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,608.58	444.69
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0043	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,812.14	444.69
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0044	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,041.82	595.20
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0045	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,281.28	595.20
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0046	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,497.12	732.02
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0047	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,728.31	732.02
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0048	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,945.10	868.85
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0049	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,173.06	868.85
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0050	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,380.74	1,019.36
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0051	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,619.84	1,019.36
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0052	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,867.09	1,176.71
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0053	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,106.13	1,176.71
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0054	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,595.07	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0055	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,765.47	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0056	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,042.24	1,580.35
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0057	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,299.19	1,580.35
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0058	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,475.86	1,724.02
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0059	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,738.52	1,724.02
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0060	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,508.20	1,529.73
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0061	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,696.00	1,607.72
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0062	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,986.28	1,693.24
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	



Electrical	26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0063	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,264.19 1,599.27 168.96	1,792.43
26 24 16 00-0064	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,453.14 1,664.51 215.94	1,847.17
26 24 16 00-0065	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,766.38 1,664.51 215.94	1,960.05
26 24 16 00-0066			120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0067	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,880.33 1,231.12	431.00
26 24 16 00-0068	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,086.68 1,231.12	431.00
26 24 16 00-0069	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,328.83 1,231.12	567.83
26 24 16 00-0070	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,653.11 1,231.12	567.83
26 24 16 00-0071	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,173.45 1,231.12	855.16
26 24 16 00-0072	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,383.40 1,231.12	855.16
26 24 16 00-0073	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,612.70 1,231.12	998.84
26 24 16 00-0074	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,806.32 1,353.89 98.93	998.84
26 24 16 00-0075	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,062.40 1,353.89 98.93	1,156.18
26 24 16 00-0076	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,242.55 1,353.89 98.93	1,156.18
26 24 16 00-0077	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,522.19 1,353.89 98.93	1,299.86
26 24 16 00-0078	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,758.78 1,353.89 98.93	1,299.86
26 24 16 00-0079	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,572.99 1,599.27 168.96	1,505.10
26 24 16 00-0080	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,825.65 1,599.27 168.96	1,587.19
26 24 16 00-0081	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,936.61 1,599.27 168.96	1,587.19
26 24 16 00-0082	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,222.05 1,599.27 168.96	1,792.43
26 24 16 00-0083	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,415.97 1,664.51 215.94	1,792.43
26 24 16 00-0084	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,551.39 1,664.51 215.94	1,792.43
26 24 16 00-0085	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,514.91 1,599.27 168.96	1,648.77

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0086	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,792.75	1,744.55
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0087	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,907.86	1,792.43
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0088	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,216.94	1,901.89
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0089	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,410.12	1,956.62
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0090	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,598.47	2,025.04
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0091			480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0092)</small>		
26 24 16 00-0092	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,793.36	437.85
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0093	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,059.00	437.85
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0094	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,312.90	602.04
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0095	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,578.51	602.04
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0096	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,824.96	752.54
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,085.64	752.54
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,358.52	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,607.02	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,882.11	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,147.04	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,389.09	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,649.77	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,215.19	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,475.54	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,753.96	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,952.10	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,264.03	1,812.96
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0109 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,481.29	1,812.96
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,269.02	465.21
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0112 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,528.18	506.26
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0113 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,790.40	629.40
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0114 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,360.50	766.23
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0115 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,613.13	848.33
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0116 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,841.72	916.75
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0117 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,095.60	998.84
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,339.18	1,080.94
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,560.41	1,149.35
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,799.14	1,217.76
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0121 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,059.06	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0122 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,344.90	1,402.48
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0123 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,650.58	1,559.82
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,923.87	1,655.60
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,112.65	1,696.65
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,422.35	1,806.12
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,631.94	1,874.53
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,849.98	1,933.37
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,164.60	478.90
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0131 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,457.10	478.90
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0132 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,741.28	636.25
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0133	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,028.01	636.25
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0134	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,319.88	786.75
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0135	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,605.11	786.75
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0136	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,895.50	944.11
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0137	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,184.55	944.11
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0138	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,503.02	1,108.30
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0139	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,765.14	1,108.30
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0140	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,043.71	1,115.14
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0141	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,342.14	1,115.14
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0142	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,094.16	1,546.15
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0143	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,398.99	1,546.15
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0144	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,627.63	1,628.24
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0145	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,963.21	1,737.70
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0146	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,209.32	1,737.70
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0147	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,585.00	1,901.89
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0148		277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,800.41	588.35
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0150	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,100.50	588.35
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0151	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,388.21	779.92
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0152	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	4,039.94	779.92
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0153	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,320.41	985.15
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0154	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,600.38	985.15
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0155	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,870.06	1,128.82
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0156	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,117.38	1,128.82
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,382.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,668.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,910.63	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,166.31	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,960.21	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,275.08	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,500.46	1,840.32
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0164	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	8,855.44	1,840.32
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0165	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,103.91	2,011.36
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0166	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,361.75	2,011.36
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0167	EA		400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,048.41	2,239.86
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0168	EA		600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	13,435.55	2,688.64
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0169			Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>		
			Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170			240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
			Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171			Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172	EA		100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	671.83	
26 24 16 00-0173	EA		100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	775.55	
26 24 16 00-0174	EA		225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,067.17	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0175	EA		225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,233.99	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0176	EA		225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,398.52	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0177	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,569.06	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0178	EA		400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,705.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0179	EA		400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,870.03	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,074.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,211.54	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,421.68	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,002.63	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,140.22	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,835.42	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,043.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,240.23	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,820.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,064.41	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,281.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,329.95	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,426.15	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,702.10	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,865.79	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,018.41	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.54	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.84	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,595.84	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,857.79	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,990.14	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,188.53	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,653.23	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,782.67	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,591.95	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,784.49	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,970.43	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,535.31	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,771.42	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,986.72	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0213				240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
				Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214				Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215	EA			100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	759.28	
26 24 16 00-0216	EA			100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	894.89	
26 24 16 00-0217	EA			100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,011.14	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0218	EA			225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,152.73	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0219	EA			225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,328.22	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0220	EA			225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,472.88	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0221	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,699.55	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0222	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,833.77	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0223	EA			400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,983.21	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0224	EA			600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,218.58	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0225	EA			600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,443.93	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0226	EA			600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,877.75	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0227				Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,173.48	
26 24 16 00-0229	EA			100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,324.96	
26 24 16 00-0230	EA			100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,537.00	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0231	EA			225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,259.52	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0232	EA			225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,449.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0233	EA			225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,632.34	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0234	EA			400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,619.39	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0235	EA			400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,848.13	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0236	EA			400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,036.92	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0237				Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238	EA			100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,417.40	
26 24 16 00-0239	EA			100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,545.49	
26 24 16 00-0240	EA			100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,653.59	
26 24 16 00-0241	EA			225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,787.66	
26 24 16 00-0242	EA			225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,960.02	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,092.77	
26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,441.04	
26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,567.11	
26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,709.02	
26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,002.05	
26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,212.99	
26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,646.81	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,824.08	
26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,967.41	
26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,175.07	
26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,016.04	
26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,190.66	
26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,362.54	
26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,991.04	
26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,226.30	
26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,426.12	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,073.95	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,183.27	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,641.58	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,834.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,001.01	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,011.01	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,123.97	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.17	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,484.40	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,663.55	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,912.07	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,175.79	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,244.26	



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Switchboards and Panelboards	26 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.24	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,574.43	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,855.83	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,708.90	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,879.19	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,101.05	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,256.98	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,499.46	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,716.23	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,709.51	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,818.83	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,262.09	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,563.68	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,718.05	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,728.05	
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,822.21	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,981.46	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,218.36	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,382.22	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,597.92	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,946.73	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,015.21	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,064.40	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,194.94	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,585.41	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,425.94	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,577.43	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,772.34	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,928.26	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,153.60	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,367.83	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0310			Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,116.57	
26 24 16 00-0312	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,226.52	
26 24 16 00-0313	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,421.68	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0314	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,704.30	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0315	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,898.22	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0316	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,063.94	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0317	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,093.80	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0318	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,226.77	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0319	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,411.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0320	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,585.87	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0321	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,766.09	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0322	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,015.64	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0323			Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,395.16	
26 24 16 00-0325	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,464.26	
26 24 16 00-0326	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,672.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0327	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,739.81	
26 24 16 00-0328	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,876.50	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0329	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,157.23	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0330	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,062.54	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0331	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,234.88	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0332	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,454.39	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0333	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,680.74	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0334	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,925.45	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0335	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,142.19	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0336			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,752.13	
26 24 16 00-0338	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,862.08	
26 24 16 00-0339	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,047.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,324.81	
26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,627.80	
26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,780.98	
26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,812.72	
26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,925.00	
26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,082.79	
26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,319.83	
26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,484.39	
26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,700.09	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,015.68	
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,084.78	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,401.69	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,365.96	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,497.01	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,886.81	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,779.57	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,933.11	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,125.68	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,352.02	
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,579.18	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,792.79	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
<i>Note: Square D I-Line or equal.</i>		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,986.29	406.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>244.16</i>	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,300.44	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>244.10</i>	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,537.03	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>244.10</i>	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,968.81	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>400.85</i>	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,151.93	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>400.85</i>	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,352.87	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>400.85</i>	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,683.45	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>532.84</i>	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,860.65	890.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>534.47</i>	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,931.38	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>532.84</i>	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,512.32	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>532.84</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,946.53	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,341.93	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,665.21	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,059.80	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,702.55	415.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	249.32	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,833.44	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,061.93	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,734.43	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,537.02	772.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,915.46	774.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	464.82	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,225.72	772.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,550.05	1,032.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	619.76	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,995.67	1,029.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.57	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,441.31	1,029.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.57	
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	176.46	68.41
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	606.21	273.66
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	908.76	390.64
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,937.95	821.10
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,116.58	889.37
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	239.25	75.26
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	411.16	82.10
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	242.89	75.26
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	270.30	82.10
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	981.40	390.64
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,227.12	889.37



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.</small>		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	294.52	75.26
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,140.23	821.10
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,282.18	821.10
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,476.61	889.37
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	8,128.41	1,368.27
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.</small>		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	3,199.30	821.10
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	3,487.68	889.37
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	8,900.09	1,368.27
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,384.82	821.10
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,651.88	889.37
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.</small>		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,369.53	821.10
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,506.16	889.37
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	909.23	390.64
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,100.58	456.31
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	926.60	390.64
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,105.32	456.31
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,585.95	608.19
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,875.25	729.97
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,146.90	842.17
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,360.27	911.68
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,533.97	1,368.27
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,647.53	608.19
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,933.68	729.97
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,205.32	842.17
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,415.54	911.68
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,715.56	1,368.27
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,295.94	1,520.29
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,485.43	1,520.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0440			Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA		125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,189.01	456.31
26 24 16 00-0442	EA		125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,774.09	684.14
26 24 16 00-0443	EA		125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,241.11	456.31
26 24 16 00-0444	EA		125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,821.46	684.14
26 24 16 00-0445	EA		200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,236.90	842.17
26 24 16 00-0446	EA		200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,440.19	912.23
26 24 16 00-0447	EA		200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,979.46	1,095.02
26 24 16 00-0448	EA		200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,597.13	1,368.27
26 24 16 00-0449	EA		200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,292.17	842.17
26 24 16 00-0450	EA		200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,502.39	911.68
26 24 16 00-0451	EA		200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,191.23	1,094.20
26 24 16 00-0452	EA		200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,810.30	1,368.27
26 24 16 00-0453	EA		400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,343.32	1,520.29
26 24 16 00-0454	EA		400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,532.80	1,520.29
26 24 16 00-0455			Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA		125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,182.69	456.31
26 24 16 00-0457	EA		125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,751.98	684.14
26 24 16 00-0458	EA		200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,004.74	729.97
26 24 16 00-0459	EA		200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,300.89	842.58
26 24 16 00-0460	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,527.04	912.23
26 24 16 00-0461	EA		200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,348.77	1,216.39
26 24 16 00-0462	EA		200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,020.53	729.97
26 24 16 00-0463	EA		200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,331.65	842.17
26 24 16 00-0464	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,533.97	911.68
26 24 16 00-0465	EA		200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,261.92	1,216.39
26 24 16 00-0466	EA		400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	5,922.38	1,520.29
26 24 16 00-0467	EA		400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	6,238.19	1,520.29
26 24 16 00-0468			Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,969.18	912.23
26 24 16 00-0470	EA		200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,102.43	1,368.27
26 24 16 00-0471	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,062.95	911.68
26 24 16 00-0472	EA		200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,197.17	1,368.27
26 24 16 00-0473			Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474			Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA		1 Pole Midget Finger-Safe Fuse Holder.....	78.29	24.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0476	EA		1 Pole With Indicator Midget Finger-Safe Fuse Holder.....	89.45	24.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0477	EA		2 Pole Midget Finger-Safe Fuse Holder.....	124.54	36.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.67 24.63	36.94
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.81 32.84	49.26
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.50 32.84	49.26
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder..... Note: With indicators. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	250.87 32.84	49.26
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.96 32.84	49.26
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.16 41.05	61.57
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.66 41.05	61.57
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.49 16.42	24.63
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.42 16.42	24.63
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.58 16.42	24.63
26 24 16 00-0488 Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers..... Note: Includes removal and reinstallation of main wiring to panelboard. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,716.71 513.10	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.76 26.68	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11 1.28	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA 1 enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,313.00 75.01	125.01
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,733.36 78.76	131.27
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,047.07 82.51	137.52
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,305.91 97.51	162.52
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,664.79 112.52	187.52
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,649.33 150.02	250.03
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,313.00 75.01	125.01
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,733.36 78.76	131.27
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,047.07 82.51	137.52
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,305.91 97.51	162.52
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,664.79 112.52	187.52
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,649.33 150.02	250.03
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,331.54 75.01	125.01
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,427.32 78.76	131.27
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,327.99 82.51	137.52
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,043.42 97.51	162.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0021	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,688.81 112.52	187.52
26 24 19 00-0022	EA		230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,350.84 150.02	250.03
26 24 19 00-0023			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 1-Speed reversing.		
26 24 19 00-0024	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,331.54 75.01	125.01
26 24 19 00-0025	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,427.32 78.76	131.27
26 24 19 00-0026	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,327.99 82.51	137.52
26 24 19 00-0027	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,043.42 97.51	162.52
26 24 19 00-0028	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,688.81 112.52	187.52
26 24 19 00-0029	EA		480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,350.84 150.02	250.03
26 24 19 00-0030			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,070.66 120.01	200.02
26 24 19 00-0032	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,576.00 127.52	212.53
26 24 19 00-0033	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,177.54 135.01	225.03
26 24 19 00-0034	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,560.60 153.77	256.29
26 24 19 00-0035	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,076.09 180.03	300.03
26 24 19 00-0036			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,070.66 120.01	200.02
26 24 19 00-0038	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,576.00 127.52	212.53
26 24 19 00-0039	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,177.54 135.01	225.03
26 24 19 00-0040	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,560.60 153.77	256.29
26 24 19 00-0041	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,076.09 180.03	300.03
26 24 19 00-0042			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,662.97 75.01	125.01
26 24 19 00-0044	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,919.72 78.76	131.27
26 24 19 00-0045	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,456.97 82.51	137.52
26 24 19 00-0046	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,730.81 97.51	162.52
26 24 19 00-0047	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,685.18 112.52	187.52
26 24 19 00-0048			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,662.97 75.01	125.01
26 24 19 00-0050	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,919.72 78.76	131.27
26 24 19 00-0051	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,456.97 82.51	137.52
26 24 19 00-0052	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,730.81 97.51	162.52
26 24 19 00-0053	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,685.18 112.52	187.52
26 24 19 00-0054			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit	6,876.56	131.27
26 24 19 00-0056	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit	10,507.44	143.76
26 24 19 00-0057	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit	17,681.18	162.52



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Low-Voltage Electrical Distribution	26 20
Switchboards and Panelboards	26 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	27,327.46	187.52
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	46,724.84	250.03
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....	6,876.56	131.27
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	10,507.44	143.76
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	17,681.18	162.52
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	27,327.46	187.52
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....	46,724.84	250.03
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit.....	4,737.46	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		120.01
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....	6,109.81	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		138.76
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....	10,687.14	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		153.77
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	18,168.96	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		187.52
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	24,949.40	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		240.04
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	4,737.46	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		120.01
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,109.81	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		138.76
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	10,687.14	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		153.77
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	18,168.96	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		187.52
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	24,949.40	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		240.04
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,327.67	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		97.51
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		120.01
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		138.76
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		153.77
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		187.52
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		240.04
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,327.67	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		97.51
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		120.01
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		138.76
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		153.77
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		187.52
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		240.04

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0100			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0102	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0103	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0104	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0105	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0106	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0107			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,091.13	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0109	EA		230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit	5,178.28	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0110	EA		230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit	7,637.85	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0111	EA		230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	13,596.24	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0112	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	24,636.53	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0113			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0114	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit	4,091.13	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0115	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit	5,178.28	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0116	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	7,637.85	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0117	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	13,596.24	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0118	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit	24,636.53	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0119			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,817.30	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0121	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	6,311.85	212.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0122	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	9,465.81	225.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0123	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	17,083.21	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0124	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	27,000.07	300.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0125				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	4,817.30	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0127	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	6,311.85	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0128	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	9,465.81	225.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0129	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	17,083.21	256.29
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0130	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	27,000.07	300.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0131				230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132	EA			230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,534.63	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0133	EA			230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	7,780.12	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0134	EA			230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	10,888.80	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0135	EA			230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	20,385.72	243.78
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.27	
26 24 19 00-0136	EA			230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	33,750.93	287.54
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.53	
26 24 19 00-0137				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138	EA			480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,534.63	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0139	EA			480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,780.12	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0140	EA			480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,888.80	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0141	EA			480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	20,385.72	243.78
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.27	
26 24 19 00-0142	EA			480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	33,750.93	287.54
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.53	
26 24 19 00-0143				230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA			230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0145	EA			230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0146	EA			230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0147	EA			230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0148	EA			230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0149				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA			480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0151	EA			480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0152	EA			480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0153	EA			480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0154	EA			480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0155			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit .....5,484.10 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01	5,484.10	200.02
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit .....6,841.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76	6,841.35	231.28
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit .....11,966.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77	11,966.78	256.29
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit .....21,142.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52	21,142.57	312.54
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....31,168.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04	31,168.52	400.05
26 24 19 00-0161			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit .....5,484.10 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01	5,484.10	200.02
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit .....6,841.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76	6,841.35	231.28
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit .....11,966.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77	11,966.78	256.29
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....21,142.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52	21,142.57	312.54
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit .....31,168.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04	31,168.52	400.05
26 24 19 00-0167			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit .....19,947.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.51	19,947.00	162.52
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit .....21,126.85 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01	21,126.85	200.02
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit .....23,248.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76	23,248.00	231.28
26 24 19 00-0171	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit .....34,758.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77	34,758.72	256.29
26 24 19 00-0172	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit .....47,102.34 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52	47,102.34	312.54
26 24 19 00-0173	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit .....66,001.65 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04	66,001.65	400.05
26 24 19 00-0174			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit .....19,947.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.53	19,947.05	162.52
26 24 19 00-0176	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit .....21,126.85 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01	21,126.85	200.02
26 24 19 00-0177	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit .....23,248.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76	23,248.00	231.28
26 24 19 00-0178	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit .....34,758.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77	34,758.72	256.29
26 24 19 00-0179	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit .....47,102.34 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52	47,102.34	312.54
26 24 19 00-0180	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit .....66,001.65 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04	66,001.65	400.05
26 24 19 00-0181			Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182			230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....2,062.68 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.01	2,062.68	125.01
26 24 19 00-0184	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....2,830.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.76	2,830.46	131.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,062.68	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,830.46	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,303.49	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,902.07	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,816.96	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,717.97	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,543.84	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	33,196.85	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,303.49	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,902.07	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,816.96	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,717.97	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,543.84	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	33,196.85	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	3,889.39	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,325.68	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	8,339.38	225.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	14,841.13	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	23,603.50	300.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	3,889.39	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,325.68	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	8,339.38	225.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	14,841.13	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	23,603.50	300.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0222		230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223	EA	7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,399.71 75.01	125.01
26 24 19 00-0224	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,686.66 78.76	131.27
26 24 19 00-0225	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,608.03 82.51	137.52
26 24 19 00-0226	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,323.36 97.51	162.52
26 24 19 00-0227		480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228	EA	10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,399.71 75.01	125.01
26 24 19 00-0229	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,686.66 78.76	131.27
26 24 19 00-0230	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,608.03 82.51	137.52
26 24 19 00-0231	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,323.36 97.51	162.52
26 24 19 00-0232		230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0233	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,641.35 78.76	131.27
26 24 19 00-0234	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,692.14 86.26	143.76
26 24 19 00-0235	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,450.67 97.51	162.52
26 24 19 00-0236	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,959.34 112.52	187.52
26 24 19 00-0237	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,587.23 150.02	250.03
26 24 19 00-0238		480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0239	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,641.35 78.76	131.27
26 24 19 00-0240	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,692.14 86.26	143.76
26 24 19 00-0241	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,450.67 97.51	162.52
26 24 19 00-0242	EA	200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,959.34 112.52	187.52
26 24 19 00-0243	EA	400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,587.23 150.02	250.03
26 24 19 00-0244		230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0245	EA	10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,765.51 120.01	200.02
26 24 19 00-0246	EA	25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,295.39 138.76	231.28
26 24 19 00-0247	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,979.34 153.77	256.29
26 24 19 00-0248	EA	75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,815.45 187.52	312.54
26 24 19 00-0249		480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0250	EA	15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,765.51 120.01	200.02
26 24 19 00-0251	EA	40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,295.39 138.76	231.28
26 24 19 00-0252	EA	75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,979.34 153.77	256.29
26 24 19 00-0253	EA	150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,815.45 187.52	312.54
26 24 19 00-0254		230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0255	EA	7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,325.52 97.51	162.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>120.01</i>	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>138.76</i>	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>153.77</i>	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>240.04</i>	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	19,325.52	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.51</i>	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>120.01</i>	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>138.76</i>	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>153.77</i>	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>240.04</i>	
26 24 19 00-0268 Starter Accessories <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		
26 24 19 00-0269 Starter Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	151.17	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	336.64	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	481.22	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	120.84	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	170.48	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	287.00	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	71.21	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	60.42	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	111.91	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	138.36	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	270.61	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	138.36	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	158.71	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	191.26	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	225.85	
26 24 19 00-0285 EA Blank Devices Panel	42.73	
26 24 19 00-0286 EA Oversize Or Special Color Starter	67.14	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	597.04	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable	542.10	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	793.53	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	67.14	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	95.63	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	67.14	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	95.63	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	95.63	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	138.36	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	343.86	
26 24 19 00-0297 EA Heater Module	63.95	
26 24 19 00-0298 EA LAM - Long Acceleration Module	397.29	
26 24 19 00-0299 EA JAM - Jam Protection Module	455.44	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	864.36	
26 24 19 00-0301 EA ULM - Underload Module	414.74	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	91.09	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	170.55	
26 24 19 00-0304 EA Type SIS Control Wire	71.71	
26 24 19 00-0305 EA Ring Or Spade Terminals Control	91.09	
26 24 19 00-0306 EA Ring Terminals Power	91.09	
26 24 19 00-0307 EA 14 Gauge Control Wire	71.71	
26 24 19 00-0308 EA Wiremakers	91.09	
26 24 19 00-0309 EA Wiring Diagram On Door	54.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0310 EA Special Color Or Type Control Wire.....	65.89	
26 24 19 00-0311 EA Current Transformer 12.5 VA.....	517.45	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,653.14	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	1,860.50	
26 24 19 00-0314 Control Relays And Special Components (26 24 19 00-0268)		
26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays.....	480.88	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays.....	572.93	
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays.....	677.47	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays.....	757.32	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays.....	626.22	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays.....	1,631.83	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays.....	2,053.88	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays.....	575.94	
26 24 19 00-0323 EA Phase Voltage, Control Relays.....	979.70	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays.....	1,371.28	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays.....	134.08	
26 24 19 00-0326 EA Over-Current Relay, Control Relays.....	3,697.75	
26 24 19 00-0327 EA UV-Relay, Control Relays.....	3,131.85	
26 24 19 00-0328 EA Over-Current Relay, Control Relays.....	3,131.85	
26 24 19 00-0329 EA Teleductor, Control Relays.....	1,010.18	
26 24 19 00-0330 EA Current Transducer, Control Relays.....	2,716.66	
26 24 19 00-0331 EA Watt Transducer, Control Relays.....	5,433.33	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	184.36	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	275.78	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	310.82	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	345.87	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	310.82	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	345.87	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	364.15	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340 EA Shunt Trip, Circuit Breaker.....	262.97	
26 24 19 00-0341 EA Auxiliary Switch, Circuit Breaker.....	90.83	
26 24 19 00-0342 EA Key Interlock, Circuit Breaker.....	326.70	
26 24 19 00-0343 EA GFR Ground Fault, Circuit Breaker.....	1,506.04	
26 24 19 00-0344 EA Seltronic Breaker, Circuit Breaker.....	872.42	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100.....	1,468.78	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150.....	2,539.05	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100.....	2,435.25	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150.....	3,503.49	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150.....	4,488.28	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250.....	2,801.30	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.53	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400.....	4,515.11	175.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.03	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600.....	5,953.68	225.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.96	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800.....	7,029.92	343.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.34	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200.....	9,966.66	518.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	311.54	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000.....	21,698.46	687.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	412.20	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500.....	32,367.98	862.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	517.08	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000.....	53,855.91	1,000.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	600.59	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,759.74	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	2,821.87	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,759.74	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	2,821.87	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	2,974.45	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	4,077.27	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	5,049.85	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,681.48 75.01	125.01
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,802.04 206.34	343.79
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,802.04 206.34	343.79
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,132.67 224.93	375.04
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,394.05 262.42	437.55
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,116.35 311.54	518.82
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches.....	1,618.28	125.01
26 24 19 00-0383 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	2,469.07	125.01
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches.....	2,546.62	156.27
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches.....	4,116.91	187.52
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches.....	8,066.59	237.53
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches.....	11,307.18	312.54
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches.....	27,375.43	418.80
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	30,926.19	581.32
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,387.66	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,432.42	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,479.22	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,696.93	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,839.36	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,079.50	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	2,502.66	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,820.07	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	6,555.76	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	3,479.31	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	4,820.17	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	7,512.06	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	6,956.59	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	9,640.34	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	9,942.07	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	13,771.60	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	655.17	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type.....	1,432.42	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	590.06	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type.....	1,432.42	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	795.56	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits.....	844.39	
26 24 19 00-0405 EA Add For Additional Circuits	106.59	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,954.36	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,094.76	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,728.51	
26 24 19 00-0409 EA Add For Demand Attachment	697.69	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	815.91	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,408.00	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,639.96	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,367.31	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,471.08	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,125.18	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors.....	25,114.12	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors.....	36,573.46	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors.....	48,059.26	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors.....	73,155.07	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw.....	468.27	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	468.27	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw.....	647.38	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,184.70	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	647.38	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	826.48	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	826.48	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,182.54	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	826.48	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0431	EA		Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,182.54	
26 24 19 00-0432	EA		Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,005.59	
26 24 19 00-0433	EA		Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,260.62	
26 24 19 00-0434	EA		Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,005.59	
26 24 19 00-0435	EA		Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,182.54	
26 24 19 00-0436	EA		Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,260.62	
26 24 19 00-0437	EA		Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,260.62	
26 24 19 00-0438	EA		Bus Duct Transition Pull Box	994.78	
26 24 19 00-0439	EA		Throat And Transition To Substation	1,920.41	
26 24 19 00-0440	EA		Service Entrance Label	415.89	
26 24 19 00-0441	EA		Type W To 5 Star - 10" Transition	869.32	
26 24 19 00-0442	EA		600 Amperes, Sub Feed Lugs On Main Bus	463.19	
26 24 19 00-0443			Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444	EA		Standard Structure Add For Each Additional 4" Of Structure Width	274.63	
26 24 19 00-0445	EA		Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	274.63	
26 24 19 00-0446	EA		Standard Structure Single Corner Section "L", 16" Depth	849.56	
26 24 19 00-0447	EA		Standard Structure Single Corner Section "L", 21" Depth	958.23	
26 24 19 00-0448	EA		Standard Structure Unused Space/Future Space	81.99	
26 24 19 00-0449	EA		Standard Structure NEMA 12 Dustproof	221.28	
26 24 19 00-0450	EA		Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	46.43	
26 24 19 00-0451	EA		Standard Structure 150 Watt Space	199.55	
26 24 19 00-0452	EA		Standard Structure Thermostat For Space Heater Control	563.97	
26 24 19 00-0453	EA		Standard Structure Rear Hinged Structure Door, 72" High	199.55	
26 24 19 00-0454	EA		Standard Structure NEMA 2 Drip Shield On Top Of MCC	364.35	
26 24 19 00-0455	EA		Standard Structure NEMA 3R N-Walk In Front Mounted	5,197.78	
26 24 19 00-0456	EA		Standard Structure NEMA 3R N-Walk In Back-to-back	6,007.88	
26 24 19 00-0457	EA		Standard Structure NEMA 3R Walk-In Aisle Front Mounted	6,013.69	
26 24 19 00-0458			Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459	EA		Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	750.06	375.04
26 24 19 00-0460	EA		Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,125.09	562.57
26 24 19 00-0461	EA		Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,250.15	625.08
26 24 19 00-0462	EA		Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,500.32	750.10
26 24 19 00-0463	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	125.01	62.51
26 24 19 00-0464	EA		Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	750.06	375.04
26 24 19 00-0465	EA		Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,125.09	562.57
26 24 19 00-0466	EA		Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,250.15	625.08
26 24 19 00-0467	EA		Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,500.32	750.10
26 24 19 00-0468	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	125.01	62.51
26 24 19 00-0469	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	875.13	437.55
26 24 19 00-0470	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,125.09	562.57
26 24 19 00-0471	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,500.32	750.10
26 24 19 00-0472	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,749.99	874.98
26 24 19 00-0473	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	187.52	93.76
26 24 19 00-0474	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	1,000.12	500.06
26 24 19 00-0475	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,375.28	687.59
26 24 19 00-0476	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,749.99	874.98
26 24 19 00-0477	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,999.90	1,000.00
26 24 19 00-0478	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	250.03	125.01
26 24 19 00-0479	EA		Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	1,000.12	500.06
26 24 19 00-0480	EA		Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,500.32	750.10
26 24 19 00-0481	EA		Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,875.03	937.49
26 24 19 00-0482	EA		Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	2,125.40	1,062.76
26 24 19 00-0483	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	250.03	125.01
26 24 19 00-0484			Motor Control Centers (26 24 19)		
26 24 19 00-0485			2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0487	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0488	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0489	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	16,052.94	281.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>168.78</i>	
26 24 19 00-0490	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	17,053.37	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0491	EA		2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	17,115.86	343.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>206.27</i>	
26 24 19 00-0492	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	17,178.35	375.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>225.02</i>	
26 24 19 00-0493	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	17,303.42	437.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>262.54</i>	
26 24 19 00-0494	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	17,428.41	500.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>300.04</i>	
26 24 19 00-0495	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	29,244.56	562.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>337.53</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,397.10 375.05	625.08
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,679.68 150.02	250.03
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,672.20 161.27	268.78
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,024.89 176.27	293.79
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,188.90 187.52	312.54
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,941.73 217.54	362.55
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,184.52 232.53	387.55
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,425.38 247.52	412.55
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,273.10 270.04	450.05
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,510.95 300.04	500.06
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,804.72 318.81	531.32
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85,153.80 375.05	625.08
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90,736.08 412.58	687.59
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95,598.23 450.10	750.10
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104,094.80 487.64	812.73
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,347.60 150.02	250.03
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,410.14 168.78	281.28
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,472.62 187.52	312.54
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,535.11 206.27	343.79
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,601.39 225.02	375.04
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,663.96 243.79	406.30
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,726.46 262.54	437.55
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,976.42 337.53	562.57
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,023.85 375.05	625.08
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,148.98 412.58	687.59
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,290.13 450.10	750.10
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,795.77 75.01	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,061.05 75.01	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,845.53 75.01	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,443.63 225.02	375.04
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,506.20 243.79	406.30
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,568.70 262.54	437.55
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,631.24 281.30	468.80
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,622.16 300.04	500.06
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,684.74 318.81	531.32
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,747.13 337.53	562.57
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,809.75 356.31	593.83
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,872.19 375.05	625.08
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,876.65 487.64	812.73
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,001.16 525.00	874.98

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,144.21 562.51	937.49
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,269.08 599.97	1,000.00
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,198.74 225.02	375.04
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,526.59 243.79	406.30
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,587.21 262.54	437.55
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,766.77 281.30	468.80
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,482.00 300.04	500.06
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,737.39 318.81	531.32
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,793.63 337.53	562.57
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,825.95 356.31	593.83
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,899.31 375.05	625.08
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,710.32 393.81	656.33
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,583.84 431.32	718.84
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65,604.76 450.10	750.10
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69,398.08 468.81	781.35
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74,700.10 487.64	812.73
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118,295.89 599.97	1,000.00
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131,533.71 637.62	1,062.76
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158,044.18 675.05	1,125.14
26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167,148.90 675.05	1,125.14
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,922.11 262.54	437.55
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,984.65 281.30	468.80
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,047.10 300.04	500.06
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,109.68 318.81	531.32
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,169.23 337.53	562.57
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,231.85 356.31	593.83
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,294.29 375.05	625.08
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,356.83 393.81	656.33
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,419.42 412.58	687.59
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,794.13 525.00	874.98
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,106.82 562.51	937.49
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,982.24 75.01	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,284.35 75.01	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,733.10 75.01	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	13,015.99	250.03
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes.....	15,663.44	375.04
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant.....	5,094.85	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters.....	233.24	18.75
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused.....	1,476.02	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	791.96	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max.....	2,358.61	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each.....	151.05	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each.....	500.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light.....	151.05	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light.....	457.48	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	1,217.07	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,217.07	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter.....	3,640.41	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,509.66	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter.....	494.98	18.75
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection.....	3,538.84	62.51
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection.....	6,734.80	31.25
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,647.08	31.25
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters.....	4,287.59	18.75
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism.....	6,195.22	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay.....	615.05	62.51
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay.....	449.07	62.51
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,328.27	374.90
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,308.14	663.61
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,773.65	849.69
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,442.31	1,368.27
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,210.73	1,505.10
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,661.14	1,669.29
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	7,756.08	1,956.62
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	13,130.33	2,279.53
26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs.....	1,096.97	478.90
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs.....	1,193.84	478.90
26 24 19 00-0609 EA 1,200 Amperes Incoming Section, Main Lugs.....	1,685.09	752.54
26 24 19 00-0610 EA 2,000 Amperes Incoming Section, Main Lugs.....	4,011.75	1,368.27
26 24 19 00-0611 EA 3,000 Amperes Incoming Section, Main Lugs.....	6,082.97	1,983.99
26 24 19 00-0612 EA 4,000 Amperes Incoming Section, Main Lugs.....	8,650.87	2,736.54
26 24 19 00-0613 Incoming Main Circuit Breaker Structure (26 24 19 00-0484)		
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614 EA 225 Amperes, Main Circuit Breaker Section.....	6,740.59	662.11
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615 EA 400 Amperes, Main Circuit Breaker Section.....	14,156.61	850.52
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616 EA 600 Amperes, Main Circuit Breaker Section.....	14,819.85	1,324.75
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617 EA 800 Amperes, Main Circuit Breaker Section.....	20,904.07	1,324.75
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 EA 1,200 Amperes, Main Circuit Breaker Section.....	30,141.59	1,498.94
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section (26 24 19 00-0484)		
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0620 EA 200 Amperes, Fusible Main Disconnect Section.....	5,877.03	662.93
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621 EA 400 Amperes, Fusible Main Disconnect Section.....	8,096.93	850.93
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622 EA 600 Amperes, Fusible Main Disconnect Section.....	15,726.10	1,325.86
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623 EA 800 Amperes, Fusible Main Disconnect Section.....	18,221.96	1,325.86
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0624 EA 1,200 Amperes, Fusible Main Disconnect Section.....	25,562.84	1,500.31
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0625 Circuit Breaker Combination Starters (26 24 19 00-0484)		
26 24 19 00-0626 Class I, Type A (26 24 19 00-0625)		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter	1,093.52	277.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.36	
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter	1,267.53	277.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.42	
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter	1,830.40	394.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.91	
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter	2,942.99	518.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.97	
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter	5,185.82	648.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	388.71	
26 24 19 00-0632 Class I, Type B (26 24 19 00-0625)		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter	1,028.23	242.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	136.83	
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter	1,196.42	242.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.09	
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter	1,745.71	350.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.50	
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter	2,856.61	474.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	285.06	
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter	5,116.16	606.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	367.82	
26 24 19 00-0638 Class I, Type C (26 24 19 00-0625)		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter	1,072.89	224.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.94	
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter	1,253.62	224.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.56	
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter	1,854.66	335.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	201.22	
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter	2,973.34	463.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.11	
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter	5,221.92	595.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	356.32	
26 24 19 00-0644 Class II, Type B (26 24 19 00-0625)		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter	1,111.79	332.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.95	
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter	1,507.61	332.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	209.86	
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter	2,117.95	443.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	265.17	
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter	3,405.79	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	342.07	
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter	6,028.15	693.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	417.15	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,356.01 180.04	314.71
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,551.09 196.59	314.71
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,233.36 257.19	429.64
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,512.50 332.11	554.15
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,153.39 412.13	684.14
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,003.84 154.09	255.87
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,499.26 209.86	350.28
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,344.61 273.65	455.63
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,213.75 384.35	638.98
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,512.05 488.67	814.12
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,009.43 136.83	228.50
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,361.84 187.95	313.33
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,997.96 251.52	418.69
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,305.87 363.90	604.77
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,585.16 462.26	768.97
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,057.65 128.12	213.45
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,423.75 175.42	290.08
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,153.12 244.33	403.64
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,459.73 356.32	595.20
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,295.56 456.09	760.76
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,285.79 192.17	320.18
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,655.25 239.21	399.53
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,375.34 308.17	514.47
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,813.33 417.15	693.71
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,585.16 518.28	866.12
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,322.60 180.04	301.02
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,716.70 226.54	377.64
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,500.76 294.89	491.21
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,949.92 407.22	677.30
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,541.31 503.04	838.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0687			Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688			Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689	EA		Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0690	EA		Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0691	EA		Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	467.12	135.46
26 24 19 00-0692	EA		Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	560.33	177.88
26 24 19 00-0693	EA		Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	930.86	270.92
26 24 19 00-0694			Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695	EA		Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0696	EA		Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	421.68	135.46
26 24 19 00-0697	EA		Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	582.57	177.88
26 24 19 00-0698	EA		Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	992.91	270.92
26 24 19 00-0699	EA		Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,389.70	394.06
26 24 19 00-0700			Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
			Note: Factory modified no labor costs.		
26 24 19 00-0701	EA		Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	129.46	
26 24 19 00-0702	EA		Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	129.46	
26 24 19 00-0703	EA		Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	196.28	
26 24 19 00-0704	EA		Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	196.28	
26 24 19 00-0705	EA		Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	390.47	
26 24 19 00-0706			Structure Combination Of Starters To 72" High <small>(26 24 19 00-0687)</small>		
26 24 19 00-0707	EA		Structure Combination Of Starters To 72" High.....	3,544.84	720.12
26 24 19 00-0708			Motor Control Center Basic Distribution Section <small>(26 24 19 00-0484)</small>		
26 24 19 00-0709	EA		20" Wide Basic Section With Vertical Wireway.....	6,165.08	1,875.35
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710	EA		25"-35" Wide Basic Section (No Vertical Wireway).....	6,165.08	1,875.35
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711	EA		25" Wide Basic Section With 9" Wide Vertical Wireway.....	6,733.99	1,875.35
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712	EA		Corner Section.....	6,733.99	1,875.35
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0713			Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small>		
			Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714			FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715	EA		Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker.....	1,516.65	263.40
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.02	
26 24 19 00-0716	EA		Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker.....	1,687.73	292.12
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.27	
26 24 19 00-0717	EA		Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker.....	2,883.70	392.69
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.64	
26 24 19 00-0718	EA		Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker.....	4,163.41	517.75
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,292.76 388.27	647.06
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,412.46 388.27	647.06
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,517.04 136.68	227.82
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,710.82 153.92	256.55
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,929.27 210.16	350.28
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,149.94 284.90	474.79
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,297.08 367.82	612.98
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,547.19 367.82	612.98
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,394.81 197.73	329.62
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,923.30 218.81	364.64
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,776.40 294.04	490.11
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,144.34 388.71	647.88
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,574.56 486.35	810.57
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,413.64 170.75	284.60
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,966.23 192.53	320.86
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,840.11 263.13	438.53
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,145.13 356.32	593.83
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,596.07 460.18	766.91
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,612.32 197.73	329.62
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,678.78 218.81	364.64
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,868.83 294.04	490.11
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,346.44 388.71	647.88
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,554.97 486.35	810.57
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,631.15 170.75	284.60
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,721.71 192.53	320.86
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,932.55 263.13	438.53
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,347.23 356.32	593.83
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,576.49 460.18	766.91
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small> Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect	1,240.10	256.82
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect	1,621.79	349.04
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect	2,657.07	454.81
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect	4,433.58	640.62
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect	8,732.73	814.39
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect	21,673.07	814.39
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect	1,252.53	227.68
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect	1,643.29	312.65
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect	2,716.23	419.24
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect	4,437.94	606.56
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect	8,717.20	770.47
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect	21,788.04	770.47

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,091.59	321.54
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,909.95	436.34
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,465.78	568.24
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,217.32	803.03
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,860.43	939.73
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,125.56	284.60
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,948.82	390.50
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,545.37	524.60
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,233.69	756.79
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,862.06	886.23
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,419.30	321.54
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,677.04	436.34
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,579.97	568.24
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,658.13	803.03
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,031.71	939.73
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,454.24	284.60
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,715.90	390.50
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,659.56	524.60
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,674.51	756.79
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,033.34	886.23
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	254.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	10.28	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	310.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	10.28	
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	373.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	12.33	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	483.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	12.33	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	807.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	14.39	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	147.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	8.22	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	772.10	197.72
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,232.20	218.92
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,529.28	294.86
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,443.25	388.59
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,047.32	485.73
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,552.95	485.73
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	9,012.23	608.19
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	862.99	192.25
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,031.60	262.02
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,404.18	335.23
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,560.01	480.26
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,450.95	610.80
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	9,903.18	610.80
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,245.93	763.50
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	17,953.37	763.50
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	69.07	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	69.07	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	133.02	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	133.02	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	184.79	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	57.95	15.48
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	126.08	27.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.88 21.38	27.36
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.88 12.81	27.36
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	330.18 56.08	93.04
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	368.22 21.27	35.44
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484) Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.13 12.81	17.78
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.00 12.81	17.78
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	122.25 10.69	17.78
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.35 8.55	17.78
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.91 6.45	17.78
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	864.62	
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements	30.70	
26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.20 20.55	34.26
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.96 20.55	30.83
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.04 20.55	30.83
26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837) Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,176.10	437.71
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,381.65	455.21
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,885.13	490.22
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,362.68	525.24
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,842.71	560.26
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,068.29	630.29
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,807.37	700.32
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,298.62	577.77
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,103.48	630.29
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,547.52	700.32
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,261.37	770.35
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,758.74	840.39
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,245.21	910.41
26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837) Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,362.05	712.04
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,725.78	1,239.38
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,961.26	1,676.81
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,478.80	770.47
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,673.05	1,212.98
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,170.86	1,781.62
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	3,861.56	825.89
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	5,216.82	1,325.86
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	6,560.01	1,781.62
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	3,991.46	890.74
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	5,216.82	1,325.86
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	6,674.95	1,839.09
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837) Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	15.11	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	266.46	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0868	EA		15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	29.53	
26 24 19 00-0869	EA		60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	67.99	
26 24 19 00-0870	EA		15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	79.66	
26 24 19 00-0871	EA		60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	120.86	
26 24 19 00-0872			Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small>		
			Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873	EA		6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	71.06	
26 24 19 00-0874	EA		12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	85.27	
26 24 19 00-0875	EA		18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	127.90	
26 24 19 00-0876	EA		24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	170.54	
26 24 19 00-0877	EA		30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	255.80	
26 24 19 00-0878	EA		48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	298.44	
26 24 19 00-0879	EA		72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	341.07	
26 25 Enclosed Bus Assemblies			<small>(26 20)</small>		
26 25 13 Low-Voltage Busways			<small>(26 25)</small>		
26 25 13 00-0001			Plug-In Bus Duct <small>(26 25 13)</small>		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002			600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003	LF		225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	507.35	41.05
			For Up To 25, Add	126.84	
			For >25 To 50, Add	76.10	
			For >50 To 100, Add	38.05	
26 25 13 00-0004	LF		400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	733.52	41.05
			For Up To 25, Add	183.38	
			For >25 To 50, Add	110.03	
			For >50 To 100, Add	55.01	
26 25 13 00-0005	LF		600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	935.60	54.73
			For Up To 25, Add	233.90	
			For >25 To 50, Add	140.34	
			For >50 To 100, Add	70.17	
26 25 13 00-0006	LF		800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,310.48	54.73
			For Up To 25, Add	327.62	
			For >25 To 50, Add	196.57	
			For >50 To 100, Add	98.29	
26 25 13 00-0007	LF		1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,381.28	68.41
			For Up To 25, Add	345.32	
			For >25 To 50, Add	207.19	
			For >50 To 100, Add	103.60	
26 25 13 00-0008	LF		1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,946.62	68.41
			For Up To 25, Add	486.66	
			For >25 To 50, Add	291.99	
			For >50 To 100, Add	146.00	
26 25 13 00-0009	LF		1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,289.23	71.83
			For Up To 25, Add	572.31	
			For >25 To 50, Add	343.38	
			For >50 To 100, Add	171.69	
26 25 13 00-0010	LF		2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,803.84	73.88
			For Up To 25, Add	700.96	
			For >25 To 50, Add	420.58	
			For >50 To 100, Add	210.29	
26 25 13 00-0011	LF		2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	3,476.41	77.99
			For Up To 25, Add	869.10	
			For >25 To 50, Add	521.46	
			For >50 To 100, Add	260.73	
26 25 13 00-0012	LF		3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	4,012.93	90.99
			For Up To 25, Add	1,003.23	
			For >25 To 50, Add	601.94	
			For >50 To 100, Add	300.97	
26 25 13 00-0013	LF		4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	4,651.42	99.20
			For Up To 25, Add	1,162.86	
			For >25 To 50, Add	697.71	
			For >50 To 100, Add	348.86	
26 25 13 00-0014			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015	LF		225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	866.22	41.05
			For Up To 25, Add	216.56	
			For >25 To 50, Add	129.93	
			For >50 To 100, Add	64.97	
26 25 13 00-0016	LF		400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,265.02	41.05
			For Up To 25, Add	316.26	
			For >25 To 50, Add	189.75	
			For >50 To 100, Add	94.88	
26 25 13 00-0017	LF		600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,430.42	54.73
			For Up To 25, Add	357.61	
			For >25 To 50, Add	214.56	
			For >50 To 100, Add	107.28	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Enclosed Bus Assemblies	26 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0018	LF		800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,828.78	54.73
			<i>For Up To 25, Add</i>	457.20	
			<i>For >25 To 50, Add</i>	274.32	
			<i>For >50 To 100, Add</i>	137.16	
26 25 13 00-0019	LF		1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,239.43	68.41
			<i>For Up To 25, Add</i>	559.86	
			<i>For >25 To 50, Add</i>	335.91	
			<i>For >50 To 100, Add</i>	167.96	
26 25 13 00-0020	LF		1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,919.22	68.41
			<i>For Up To 25, Add</i>	729.81	
			<i>For >25 To 50, Add</i>	437.88	
			<i>For >50 To 100, Add</i>	218.94	
26 25 13 00-0021	LF		1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,786.68	70.88
			<i>For Up To 25, Add</i>	946.67	
			<i>For >25 To 50, Add</i>	568.00	
			<i>For >50 To 100, Add</i>	284.00	
26 25 13 00-0022	LF		2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	4,574.48	73.88
			<i>For Up To 25, Add</i>	1,143.62	
			<i>For >25 To 50, Add</i>	686.17	
			<i>For >50 To 100, Add</i>	343.09	
26 25 13 00-0023	LF		2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	5,689.91	77.31
			<i>For Up To 25, Add</i>	1,422.48	
			<i>For >25 To 50, Add</i>	853.49	
			<i>For >50 To 100, Add</i>	426.74	
26 25 13 00-0024	LF		3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	6,567.02	90.99
			<i>For Up To 25, Add</i>	1,641.76	
			<i>For >25 To 50, Add</i>	985.05	
			<i>For >50 To 100, Add</i>	492.53	
26 25 13 00-0025	LF		4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	7,620.09	99.20
			<i>For Up To 25, Add</i>	1,905.02	
			<i>For >25 To 50, Add</i>	1,143.01	
			<i>For >50 To 100, Add</i>	571.51	
26 25 13 00-0026			Cable Tap Boxes <small>(26 25 13 00-0001)</small>		
26 25 13 00-0027			600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028	EA		225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,372.68	191.56
26 25 13 00-0029	EA		400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,478.24	191.56
26 25 13 00-0030	EA		600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,816.09	259.97
26 25 13 00-0031	EA		800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,097.23	259.97
26 25 13 00-0032	EA		1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,446.27	342.07
26 25 13 00-0033	EA		1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,959.45	342.07
26 25 13 00-0034			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0035	EA		225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,478.24	376.28
26 25 13 00-0036	EA		400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,831.79	376.28
26 25 13 00-0037	EA		600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,127.23	513.10
26 25 13 00-0038	EA		800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,755.46	513.10
26 25 13 00-0039	EA		1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,017.23	684.14
26 25 13 00-0040	EA		1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,858.63	684.14
26 25 13 00-0041			Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small>		
26 25 13 00-0042			240 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0043	EA		60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,909.44	136.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.85	
26 25 13 00-0044	EA		100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	3,918.76	136.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.09	
26 25 13 00-0045			600 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0046	EA		60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	3,847.97	136.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.85	
26 25 13 00-0047	EA		100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	4,986.00	136.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.09	
26 25 13 00-0048			120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0049	EA		60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,200.38	164.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.52	
26 25 13 00-0050	EA		100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,617.90	164.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.90	
26 25 13 00-0051			277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0052	EA		60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,546.64	164.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.52	
26 25 13 00-0053	EA		100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,973.83	164.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.90	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 25	Enclosed Bus Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	5,600.94	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	246.09	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	13,488.01	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	534.48	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	14,736.77	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	743.62	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	17,562.86	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,315.64	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,904.68	136.83
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,073.91	136.83
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,891.62	164.19
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	4,858.79	328.38
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	12,433.80	738.87
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	18,301.42	1,286.17
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,002.68	150.50
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,166.49	150.50
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,932.94	150.50
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	5,008.88	314.71
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	12,397.26	711.50
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	18,560.57	1,368.27
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	31,074.27	1,778.75
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,211.99	177.88
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,348.88	177.88
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,179.11	177.88
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	5,397.17	369.43
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	13,592.97	820.96
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,717.00	1,258.80
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,291.62	177.88
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,428.51	150.92
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,408.12	205.24
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	5,640.38	369.43
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	13,592.97	820.96
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,717.00	1,258.80
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	31,690.76	1,669.29
26 25 16 Low-Voltage Cablebus Systems (26 25)		
26 25 16 00-0001 Feeder Bus Duct (26 25 16)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,602.65	57.46
For Up To 25, Add	400.66	
For >25 To 50, Add	240.40	
For >50 To 100, Add	120.20	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,619.88	57.46
For Up To 25, Add	404.97	
For >25 To 50, Add	242.98	
For >50 To 100, Add	121.49	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,135.20	57.46
For Up To 25, Add	533.80	
For >25 To 50, Add	320.28	
For >50 To 100, Add	160.14	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,573.95	57.46
For Up To 25, Add	643.49	
For >25 To 50, Add	386.09	
For >50 To 100, Add	193.05	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,152.41	57.46
For Up To 25, Add	788.10	
For >25 To 50, Add	472.86	
For >50 To 100, Add	236.43	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	4,298.24	136.83
For Up To 25, Add	1,074.56	
For >25 To 50, Add	644.74	
For >50 To 100, Add	322.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	5,960.76	136.83
<i>For Up To 25, Add</i>	1,490.19	
<i>For >25 To 50, Add</i>	894.11	
<i>For >50 To 100, Add</i>	447.06	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	7,051.57	136.83
<i>For Up To 25, Add</i>	1,762.89	
<i>For >25 To 50, Add</i>	1,057.74	
<i>For >50 To 100, Add</i>	528.87	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	8,700.46	136.83
<i>For Up To 25, Add</i>	2,175.12	
<i>For >25 To 50, Add</i>	1,305.07	
<i>For >50 To 100, Add</i>	652.53	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,846.77	61.57
<i>For Up To 25, Add</i>	461.69	
<i>For >25 To 50, Add</i>	277.02	
<i>For >50 To 100, Add</i>	138.51	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,868.24	61.57
<i>For Up To 25, Add</i>	467.06	
<i>For >25 To 50, Add</i>	280.24	
<i>For >50 To 100, Add</i>	140.12	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,417.53	61.57
<i>For Up To 25, Add</i>	604.38	
<i>For >25 To 50, Add</i>	362.63	
<i>For >50 To 100, Add</i>	181.31	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,866.85	61.57
<i>For Up To 25, Add</i>	716.71	
<i>For >25 To 50, Add</i>	430.03	
<i>For >50 To 100, Add</i>	215.01	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,468.15	61.57
<i>For Up To 25, Add</i>	867.04	
<i>For >25 To 50, Add</i>	520.22	
<i>For >50 To 100, Add</i>	260.11	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	5,346.36	105.36
<i>For Up To 25, Add</i>	1,336.59	
<i>For >25 To 50, Add</i>	801.95	
<i>For >50 To 100, Add</i>	400.98	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	6,708.17	105.36
<i>For Up To 25, Add</i>	1,677.04	
<i>For >25 To 50, Add</i>	1,006.23	
<i>For >50 To 100, Add</i>	503.11	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	7,934.14	195.66
<i>For Up To 25, Add</i>	1,983.54	
<i>For >25 To 50, Add</i>	1,190.12	
<i>For >50 To 100, Add</i>	595.06	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	9,805.08	195.66
<i>For Up To 25, Add</i>	2,451.27	
<i>For >25 To 50, Add</i>	1,470.76	
<i>For >50 To 100, Add</i>	735.38	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	268.06	88.93
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	281.74	88.93
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	369.45	109.46
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	373.34	109.46
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	673.65	123.14
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	881.20	136.83
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,075.33	150.50
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,661.08	684.14

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	240.31	27.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.83	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	649.46	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	567.80	177.88
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26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 27 13 00-0016		120/240 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>			
26 27 13 00-0017		800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0016)</small>			
26 27 13 00-0018	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	923.79		85.52
26 27 13 00-0019	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,210.39		102.62
26 27 13 00-0020	EA	5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,495.52		119.72
26 27 13 00-0021	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,731.95		136.83
26 27 13 00-0022	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,241.43		153.93
26 27 13 00-0023	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,423.24		171.03
26 27 13 00-0024	EA	10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,831.14		205.24
26 27 13 00-0025		1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole <small>(26 27 13 00-0016)</small>			
26 27 13 00-0026	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,661.80		85.52
26 27 13 00-0027	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,183.10		102.62
26 27 13 00-0028	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,004.29		136.83
26 27 13 00-0029	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,333.67		153.93
26 27 13 00-0030	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,179.68		171.03
26 27 13 00-0031		800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>			
26 27 13 00-0032	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44		119.72
26 27 13 00-0033	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23		136.83
26 27 13 00-0034	EA	5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,241.43		153.93
26 27 13 00-0035	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88		171.03
26 27 13 00-0036	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76		188.14
26 27 13 00-0037	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82		205.24
26 27 13 00-0038	EA	10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,286.98		239.45
26 27 13 00-0039		1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>			
26 27 13 00-0040	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.49		119.72
26 27 13 00-0041	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63		136.83
26 27 13 00-0042	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76		171.03
26 27 13 00-0043	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88		188.14
26 27 13 00-0044	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.82		205.24
26 27 13 00-0045		120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>			
26 27 13 00-0046		800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small>			
26 27 13 00-0047	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,011.13		102.62
26 27 13 00-0048	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,313.97		119.72
26 27 13 00-0049	EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,615.35		136.83
26 27 13 00-0050	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,872.43		153.93
26 27 13 00-0051	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,290.40		171.03
26 27 13 00-0052	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,472.20		188.14
26 27 13 00-0053	EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,042.47		222.35
26 27 13 00-0054		1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>			
26 27 13 00-0055	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.06		102.62
26 27 13 00-0056	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.87		119.72
26 27 13 00-0057	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,318.91		153.93
26 27 13 00-0058	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,648.32		171.03
26 27 13 00-0059	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.80		188.14
26 27 13 00-0060		800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>			
26 27 13 00-0061	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.81		136.83
26 27 13 00-0062	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.50		153.93
26 27 13 00-0063	EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,378.99		171.03
26 27 13 00-0064	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.44		188.14
26 27 13 00-0065	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.87		205.24
26 27 13 00-0066	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87		222.35
26 27 13 00-0067	EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,513.12		256.55
26 27 13 00-0068		1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>			
26 27 13 00-0069	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.53		136.83
26 27 13 00-0070	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.94		153.93
26 27 13 00-0071	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.92		188.14
26 27 13 00-0072	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46		205.24



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	923.79	85.52
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,210.39	102.62
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,731.95	136.83
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,241.43	153.93
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,762.72	171.03
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,661.79	85.52
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,183.08	102.62
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,151.87	136.83
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,481.27	153.93
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,179.68	171.03
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44	119.72
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23	136.83
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88	171.03
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76	188.14
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.51	119.72
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63	136.83
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76	171.03
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.87	205.24
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,011.13	102.62
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,313.97	119.72
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,872.43	153.93
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,438.00	171.03
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.04	102.62
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.85	119.72
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,171.31	153.93
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,500.72	171.03
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.76	188.14
26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.79	136.83
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.47	153.93
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87	222.35
26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.51	136.83
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.91	153.93
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46	205.24
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0124			Watt/Hour Meters <small>(26 27 13)</small>		
26 27 13 00-0125	EA		Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,008.41	82.10
26 27 13 00-0126	EA		Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure.....	2,990.18	164.19
26 27 13 00-0127	EA		Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure.....	1,619.54	123.14
26 27 13 00-0128	EA		Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure.....	1,956.64	123.14
26 27 13 00-0129	EA		Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	1,669.06	123.14
26 27 13 00-0130	EA		C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....	1,116.75	113.56
26 27 13 00-0131	EA		P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....	1,915.08	205.24
26 27 13 00-0132			Watt/Hour Meter Systems <small>(26 27 13)</small>		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.					
26 27 13 00-0133			Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0134	EA		400 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	5,064.03	821.10
26 27 13 00-0135	EA		600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	5,859.57	821.10
26 27 13 00-0136			Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0137	EA		400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	8,556.84	821.10
26 27 13 00-0138	EA		600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	10,291.55	821.10
26 27 13 00-0139	EA		800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	11,027.22	821.10
26 27 16			Electrical Cabinets and Enclosures <small>(26 27)</small>		
Note: Can be used as enclosure or pull/junction boxes.					
26 27 16 00-0001			NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>		
26 27 16 00-0002			Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>		
26 27 16 00-0003			4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>		
26 27 16 00-0004	EA		6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	81.85	27.36
26 27 16 00-0005	EA		6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	91.42	30.10
26 27 16 00-0006	EA		8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.05	32.83
26 27 16 00-0007	EA		8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	117.95	38.32
26 27 16 00-0008	EA		10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	128.03	41.05
26 27 16 00-0009	EA		10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.71	43.79
26 27 16 00-0010	EA		12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.40	43.79
26 27 16 00-0011	EA		12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	149.31	46.52
26 27 16 00-0012	EA		12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	160.66	49.26
26 27 16 00-0013	EA		16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	209.52	65.68
26 27 16 00-0014	EA		16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	253.96	79.36
26 27 16 00-0015	EA		18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	242.07	76.62
26 27 16 00-0016			6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>		
26 27 16 00-0017	EA		6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.65	32.83
26 27 16 00-0018	EA		8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	122.39	38.32
26 27 16 00-0019	EA		10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	146.63	46.52
26 27 16 00-0020	EA		10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	157.75	49.26
26 27 16 00-0021	EA		12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	169.07	51.99
26 27 16 00-0022	EA		12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	180.82	54.73
26 27 16 00-0023	EA		16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	230.70	71.15
26 27 16 00-0024	EA		16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	280.55	87.57
26 27 16 00-0025	EA		18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	270.81	84.84
26 27 16 00-0026	EA		18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	352.01	109.46
26 27 16 00-0027	EA		24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	442.25	125.88
26 27 16 00-0028	EA		24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	500.77	136.83
26 27 16 00-0029	EA		30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	552.71	145.03
26 27 16 00-0030	EA		36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	597.82	150.50
26 27 16 00-0031	EA		24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L).....	413.88	109.46
26 27 16 00-0032			Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>		
26 27 16 00-0033			3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0034	EA		4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	56.03	19.16
26 27 16 00-0035	EA		6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	80.06	27.36
26 27 16 00-0036	EA		8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.98	30.10
26 27 16 00-0037			4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0038	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	63.01	21.89
26 27 16 00-0039	EA		6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	78.30	27.36
26 27 16 00-0040	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	87.10	30.10
26 27 16 00-0041	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.01	32.83
26 27 16 00-0042	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	112.01	38.32
26 27 16 00-0043	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	121.24	41.05
26 27 16 00-0044	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.82	43.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.55	43.79
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	140.46	46.52
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	150.59	49.26
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	197.97	65.68
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	245.88	82.10
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	228.51	76.62
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	295.41	98.51
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	411.42	123.14
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.40	32.83
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	105.81	35.58
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	122.00	41.05
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	148.47	49.26
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	158.57	51.99
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	169.01	54.73
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	217.24	71.15
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	267.03	87.57
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	255.06	84.84
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	330.97	109.46
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	404.81	125.88
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	458.06	136.83
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	492.42	145.03
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	532.21	150.50
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	186.29	60.21
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	236.91	76.62
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	294.58	95.78
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	282.73	93.04
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	349.97	114.94
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	392.81	131.36
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	445.51	139.56
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	504.81	150.50
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	536.00	158.72
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	561.10	164.19
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	572.52	164.19
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	319.60	103.98
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	418.43	134.09
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	428.73	142.30
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	531.43	153.25
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	606.29	169.66
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.47	175.14
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	703.93	183.35
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	461.74	147.77
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	466.84	155.99
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	585.22	169.66
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.51	186.08
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	731.94	194.29
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	770.09	202.51
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,065.00	120.41
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	105.55	21.89
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	138.48	30.10
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	171.99	38.32
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	185.93	41.05
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	207.26	43.79
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	222.86	46.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0109			6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	153.37	32.83
26 27 16 00-0111	EA		8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	168.58	35.58
26 27 16 00-0112			Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113			4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	193.68	21.89
26 27 16 00-0115	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	234.93	30.10
26 27 16 00-0116	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	264.86	32.83
26 27 16 00-0117	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	303.52	38.32
26 27 16 00-0118	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	313.29	41.05
26 27 16 00-0119	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	366.83	43.79
26 27 16 00-0120	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	393.55	46.52
26 27 16 00-0121	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	445.32	49.26
26 27 16 00-0122			6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	283.45	32.83
26 27 16 00-0124	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	319.38	35.58
26 27 16 00-0125	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	349.67	41.05
26 27 16 00-0126	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	414.05	49.26
26 27 16 00-0127	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	450.50	54.73
26 27 16 00-0128	EA		16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	622.31	71.15
26 27 16 00-0129	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	963.82	109.46
26 27 16 00-0130	EA		24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,250.64	125.88
26 27 16 00-0131	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,406.59	136.83
26 27 16 00-0132			8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0133	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,309.68	139.56
26 27 16 00-0134	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,502.35	150.50
26 27 16 00-0135	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,646.87	158.72
26 27 16 00-0136	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,808.44	164.19
26 27 16 00-0137	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,785.07	164.19
26 27 16 00-0138			Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0139			8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0140	EA		60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,470.53	222.35
26 27 16 00-0141			10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0142	EA		60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,535.30	246.29
26 27 16 00-0143	EA		60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,339.19	263.40
26 27 16 00-0144	EA		72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,306.43	328.38
26 27 16 00-0145	EA		72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,169.61	387.22
26 27 16 00-0146			12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0147	EA		60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,971.59	387.22
26 27 16 00-0148	EA		60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,645.44	410.48
26 27 16 00-0149	EA		72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,532.59	437.85
26 27 16 00-0150	EA		72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,287.75	437.85
26 27 16 00-0151			NEMA 3 Enclosures, Lockable (26 27 16) Note: Can be used underground or encased in concrete.		
26 27 16 00-0152			2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0153	EA		4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	310.04	95.78
26 27 16 00-0154			3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0155	EA		4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	328.78	95.78
26 27 16 00-0156	EA		5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	406.60	99.20
26 27 16 00-0157	EA		6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	419.36	99.20
26 27 16 00-0158	EA		6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	514.02	102.62
26 27 16 00-0159			4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0160	EA		4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	403.15	99.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	436.51	99.20
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	454.56	102.62
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	557.03	102.62
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	610.38	109.46
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	656.14	116.31
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	680.52	116.31
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	798.44	119.72
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	862.29	123.14
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,162.12	136.83
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	586.96	106.04
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	731.62	119.72
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	847.30	123.14
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	967.59	126.57
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,025.07	126.57
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,161.81	136.83
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,341.38	153.93
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,265.14	147.09
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,452.62	273.66
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,173.12	342.07
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,036.02	129.98
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,543.91	171.03
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,567.39	171.03
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,137.75	256.55
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,778.71	273.66
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,927.40	478.90
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,691.98	342.07
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,611.82	410.48
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,637.35	376.28
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	101.97	27.36
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	112.52	30.10
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	158.74	32.83
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	199.63	41.05
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	223.51	46.52
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	260.52	51.99
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	280.67	54.73
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	365.35	71.15
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	438.53	87.57
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	507.19	109.46
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	752.57	139.56
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	831.81	150.50
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	929.24	158.72
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	975.54	164.19
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	930.91	169.66
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,051.52	191.56
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,164.32	212.09
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,282.19	233.98
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,396.37	254.50
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	621.74	134.09
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	930.91	169.66
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,085.14	175.14

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,353.64	191.56
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	883.43	135.46
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	990.98	151.88
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,097.17	168.30
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,212.86	186.08
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	660.20	101.25
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	883.43	135.46
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	990.98	151.88
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,165.40	177.88
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,259.81	199.77
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,387.34	207.98
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,536.92	218.92
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,661.89	229.87
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	74.15	21.89
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	90.27	27.36
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	99.60	30.10
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	110.06	32.83
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	127.92	38.32
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	138.93	41.05
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.72	43.79
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.19	43.79
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	163.23	46.52
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	175.01	49.26
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	265.98	76.62
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	352.19	98.51
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	104.75	32.83
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	140.36	41.05
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	159.02	46.52
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	171.54	49.26
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	170.76	49.26
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	183.93	51.99
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	197.20	54.73
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	257.18	71.15
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	298.09	84.84
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	395.18	109.46
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	414.87	117.67
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	468.28	125.88
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	524.05	136.83
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	220.00	60.21
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	322.65	93.04
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	436.74	120.41
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	518.34	139.56
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	581.39	150.50
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	640.07	158.72
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	482.68	134.09
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	642.16	169.66
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	696.98	175.14
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	708.48	186.08
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	947.94	202.51
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	978.80	207.98
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,128.09	218.92
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0284	EA		4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	119.18	19.16
26 27 16 00-0285	EA		6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	139.46	23.27
26 27 16 00-0286	EA		8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	174.58	30.10
26 27 16 00-0287	EA		6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	166.48	30.10
26 27 16 00-0288	EA		10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	222.71	41.05
26 27 16 00-0289	EA		12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	276.98	49.26
26 27 16 00-0290	EA		10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	256.13	46.52
26 27 16 00-0291	EA		12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	298.73	54.73
26 27 16 00-0292	EA		14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	351.14	62.94
26 27 16 00-0293	EA		16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	426.41	79.36
26 27 16 00-0294			Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295	EA		4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	109.77	19.16
26 27 16 00-0296	EA		6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	157.09	30.10
26 27 16 00-0297			Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298	EA		6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	138.40	26.27
26 27 16 00-0299	EA		8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	147.17	28.46
26 27 16 00-0300	EA		10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	181.23	37.21
26 27 16 00-0301	EA		12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	211.40	41.05
26 27 16 00-0302	EA		14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	272.94	51.99
26 27 16 00-0303	EA		16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	319.20	61.57
26 27 16 00-0304	EA		18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	452.54	98.51
26 27 16 00-0305			NEMA 4X Enclosures, Lockable (26 27 16)		
			Note: Water-tight enclosures.		
26 27 16 00-0306			Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307	EA		6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	233.24	21.89
26 27 16 00-0308	EA		6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	276.03	30.10
26 27 16 00-0309	EA		10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	350.58	41.05
26 27 16 00-0310	EA		12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	425.46	49.26
26 27 16 00-0311	EA		14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	525.09	62.94
26 27 16 00-0312	EA		16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	621.31	79.36
26 27 16 00-0313			Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314	EA		4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	271.06	19.16
			For 316 Stainless Steel, Add	35.71	
26 27 16 00-0315	EA		6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	353.97	27.36
			For 316 Stainless Steel, Add	45.69	
26 27 16 00-0316	EA		6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	400.59	30.10
			For 316 Stainless Steel, Add	52.05	
26 27 16 00-0317	EA		8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	457.53	32.83
			For 316 Stainless Steel, Add	60.07	
26 27 16 00-0318	EA		10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	562.34	41.05
			For 316 Stainless Steel, Add	73.56	
26 27 16 00-0319	EA		12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	787.61	51.99
			For 316 Stainless Steel, Add	105.22	
26 27 16 00-0320	EA		14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	980.79	62.94
			For 316 Stainless Steel, Add	131.75	
26 27 16 00-0321	EA		16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,184.42	79.36
			For 316 Stainless Steel, Add	157.76	
26 27 16 00-0322			Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
			Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	141.58	30.10
26 27 16 00-0324	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	158.89	32.83
26 27 16 00-0325	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	182.18	38.32
26 27 16 00-0326	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	197.75	41.05
26 27 16 00-0327	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	228.01	46.52
26 27 16 00-0328	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	215.79	46.52
26 27 16 00-0329	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	250.36	51.99
26 27 16 00-0330	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	312.68	62.94
26 27 16 00-0331	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	402.25	86.20
26 27 16 00-0332	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	524.41	124.10
26 27 16 00-0333	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	151.19	30.10
26 27 16 00-0334	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	170.25	32.83
26 27 16 00-0335	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	194.40	38.32
26 27 16 00-0336	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	212.57	41.05
26 27 16 00-0337	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	243.72	46.52
26 27 16 00-0338	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	230.64	46.52
26 27 16 00-0339	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	270.49	51.99
26 27 16 00-0340	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	323.15	62.94
26 27 16 00-0341	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	424.07	86.20
26 27 16 00-0342	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	547.96	124.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0343	Hinged Cover, Polycarbonate NEMA 4X Enclosures ^(26 27 16 00-0305)	
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	168.64	30.10
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	180.72	32.83
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	205.73	38.32
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	222.18	41.05
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	262.05	46.52
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	242.85	46.52
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	295.78	51.99
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	351.96	62.94
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	436.29	86.20
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	568.91	124.10
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	175.62	30.10
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	193.80	32.83
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	217.95	38.32
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	235.26	41.05
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	279.50	46.52
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	257.68	46.52
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	314.12	51.99
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	360.69	62.94
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	465.08	86.20
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	599.46	124.10
26 27 16 00-0364	NEMA 7/9 Enclosures, Lockable ^(26 27 16)	
Note: Nominal inside dimensions.		
26 27 16 00-0365	4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures ^(26 27 16 00-0364)	
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,221.84	153.93
For Mounting Pan, Add	48.38	
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	997.05	164.19
For Mounting Pan, Add	90.15	
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,874.08	184.71
For Mounting Pan, Add	124.31	
26 27 16 00-0369	6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures ^(26 27 16 00-0364)	
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,677.74	184.71
For Mounting Pan, Add	63.21	
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,158.29	189.85
For Mounting Pan, Add	124.31	
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,214.33	205.24
For Mounting Pan, Add	95.09	
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,269.52	205.24
For Mounting Pan, Add	111.26	
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,190.30	256.55
For Mounting Pan, Add	145.96	
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,001.64	230.89
For Mounting Pan, Add	91.14	
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,114.74	256.55
For Mounting Pan, Add	136.37	
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,847.39	461.79
For Mounting Pan, Add	183.47	
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,816.49	307.86
For Mounting Pan, Add	178.63	
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,068.62	513.10
For Mounting Pan, Add	163.99	
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,018.83	513.10
For Mounting Pan, Add	266.60	
26 27 16 00-0381	8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures ^(26 27 16 00-0364)	
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,579.83	230.89
For Mounting Pan, Add	95.09	
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,596.98	230.89
For Mounting Pan, Add	111.26	
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,923.62	230.89
For Mounting Pan, Add	145.96	
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,239.91	256.55
For Mounting Pan, Add	91.14	
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,758.91	461.79
For Mounting Pan, Add	136.37	
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,792.35	564.42
For Mounting Pan, Add	183.47	
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,975.90	667.04
For Mounting Pan, Add	275.91	
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,246.81	564.42
For Mounting Pan, Add	178.63	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,381.23 163.99	564.42
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,893.06 245.82	615.73
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,550.14 266.60	564.42
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,673.23 389.85	615.73
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,616.16 519.73	615.73
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	13,302.44 649.56	820.96
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,147.60 603.98	667.04
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	18,284.44 826.84	1,026.20
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,321.69 275.91	667.04
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,581.79 245.82	615.73
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,347.42 389.85	667.04
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,739.17 649.56	718.34
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,433.13 603.98	718.34
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	19,868.55 826.84	1,026.20
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,915.67 183.47	564.42
26 27 16 00-0407 Breaker Enclosures <small>(26 27 16)</small> See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	396.23	109.46
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	688.00	109.46
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,643.50	150.50
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,210.30	164.19
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,631.46	164.19
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	615.32	150.50
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	621.86	150.50
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,089.09	150.50
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	3,577.50	191.56
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	929.10	191.56
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,002.61	301.02
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,154.77	301.02
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	6,088.40	383.12
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,613.26	383.12
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	1,957.17	574.68
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,174.89	574.68
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	10,976.38	738.87
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	6,091.43	738.87
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,331.49	574.68
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	3,766.86	574.68
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	7,573.71	738.87
26 27 16 00-0434 Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	20.50	6.84

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	23.85	6.84
26 27 23 Indoor Service Poles (26 27)		
26 27 23 00-0001 Communication And Power Poles (26 27 23) Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	285.25	60.64
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	306.56	60.64
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	331.20	60.64
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	58.46	12.50
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	51.74	12.50
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	57.53	12.50
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	44.68	12.50
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	38.20	12.50
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	358.31	60.64
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	404.10	60.64
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	428.81	60.64
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0023 3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	455.34	60.64
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	510.46	60.64
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	546.79	60.64
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0032 Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	372.65	60.64
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	411.18	60.64
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	454.38	60.64
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	59.78	12.50
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	60.87	12.50
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	64.49	12.50
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	46.72	12.50
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	38.20	12.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	360.62	60.64
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	400.14	60.64
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	446.70	60.64
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	712.64	60.64
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	809.57	60.64
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	918.13	60.64
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	404.79	60.64
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	385.26	60.64
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	482.74	60.64
26 27 26 Wiring Devices <small>(26 27)</small>		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>		
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	111.98	48.58
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	119.89	51.99
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	143.78	62.25
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	159.64	69.10
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	126.70	48.58
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	135.40	51.99
26 27 26 00-0010 Receptacle Components <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	31.38	13.69
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	30.52	13.69
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	35.58	13.69
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	38.51	13.69
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	49.09	17.10
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	58.70	17.10
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	32.50	13.69
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	31.60	13.69
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	44.80	13.69
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	37.59	13.69
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	49.09	17.10
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	58.70	17.10
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	89.55	17.10
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	89.55	17.10
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	76.59	20.52
26 27 26 00-0026 Specialty Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0027 Specialty Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	69.72	23.95
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	69.72	23.95
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	81.43	23.95
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	103.23	23.95
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	110.07	27.36
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	102.07	27.36
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	99.82	27.36
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	88.20	27.36
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	97.68	27.36
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	122.36	27.36
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	129.20	30.79
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	142.19	34.21
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	155.87	41.05
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,464.21	321.54
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,506.72	393.38
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	82.95	27.36
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	121.63	41.05
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	76.23	17.10
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,552.00	416.68
26 27 26 00-0047 Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	83.46	13.69
Note: 2 Pole, 3 wire.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	65.28	17.10
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	65.06	17.10
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	91.13	27.36
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles	72.68	17.10
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles	66.92	17.10
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	91.78	20.52
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	73.84	20.52
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	93.91	20.52
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	113.46	20.52
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	113.35	27.36
26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	787.60	34.21
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	728.66	37.62
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,214.30	68.41
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,520.96	68.41
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,932.38	102.62
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,843.60	102.62
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	41.83	17.10
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	60.79	20.52
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	73.93	17.10
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	81.06	17.10
26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	55.30	17.10
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	66.24	17.10
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	62.01	20.52
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	61.53	20.52
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	71.16	20.52
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	83.60	20.52
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	82.23	20.52
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	73.13	20.52
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	85.17	27.36
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle.....	86.32	27.36
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle.....	121.27	27.36
26 27 26 00-0084 Hospital Grade Receptacle (26 27 26 00-0026)		
26 27 26 00-0085 EA 15 Amperes, Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle.....	53.97	13.69
26 27 26 00-0086 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle.....	58.11	13.69
26 27 26 00-0087 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	65.97	13.69
26 27 26 00-0088 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	58.71	13.69
26 27 26 00-0089 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	66.83	13.69
26 27 26 00-0090 EA 20 Amperes, Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle.....	73.13	13.69
26 27 26 00-0091 EA 120 Volt, Transient Voltage, Surge Suppressor Receptacle	174.74	41.05
Note: Hospital grade receptacle.		
26 27 26 00-0092 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0093 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	274.81	68.41
26 27 26 00-0094 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	274.24	68.41
26 27 26 00-0095 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	285.00	68.41
26 27 26 00-0096 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	344.31	75.26
26 27 26 00-0097 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	345.21	75.26
26 27 26 00-0098 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	343.13	75.26
26 27 26 00-0099 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	408.79	84.14
26 27 26 00-0100 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	391.29	84.14
26 27 26 00-0101 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	418.69	84.14
26 27 26 00-0102 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	425.94	92.36
26 27 26 00-0103 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	425.60	92.36
26 27 26 00-0104 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	428.08	92.36
26 27 26 00-0105 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	590.78	109.46
26 27 26 00-0106 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	569.59	109.46
26 27 26 00-0107 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	583.38	109.46
26 27 26 00-0108 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	649.63	121.78
26 27 26 00-0109 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	650.04	121.78
26 27 26 00-0110 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	650.45	121.78
26 27 26 00-0111 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	723.59	136.83
26 27 26 00-0112 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	750.76	136.83
26 27 26 00-0113 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	809.06	150.50
26 27 26 00-0114 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	807.02	150.50
26 27 26 00-0115 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	810.86	150.50

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	89.85	11.10
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	100.38	42.76
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch..... Note: 15A, 120/277 V, Single Pole	118.76	42.76
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	135.99	13.71
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	99.57	13.71
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	225.25	13.69
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	52.15	13.69
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	106.25	13.71
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	122.22	13.71
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	157.07	13.71
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	139.81	13.71
26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)		
26 27 26 00-0181 Dimmers With SPST Switch (26 27 26 00-0180)		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch	78.63	30.79
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch	131.86	30.79
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch	236.57	49.53
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch	304.49	49.53
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch.....	170.91	36.53
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch	229.35	36.53
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch.....	413.44	55.14
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan.....	128.74	45.56
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	211.23	68.00
26 27 26 00-0191 Time Switches (26 27 26 00-0180)		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	143.58	41.05
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	146.65	41.05
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	143.58	41.05
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch.....	146.65	41.05
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	246.19	41.05
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	269.89	41.05
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	269.89	41.05
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch.....	143.58	41.05
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch.....	146.65	41.05
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	143.58	41.05
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	146.65	41.05
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	284.99	41.05
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0215 Low Voltage Switching (26 27 26 00-0180)		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector.....	226.14	13.69
26 27 26 00-0217 Other Switches (26 27 26 00-0180)		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	44.85	20.52
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices	135.87	54.73
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices.....	137.54	54.73
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	149.19	51.17
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch.....	142.48	51.17
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch.....	149.55	51.17
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	143.03	61.66
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	145.01	61.66
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	178.32	75.37
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	162.16	68.51
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	162.66	68.51
26 27 26 00-0229 Plates And Covers (26 27 26)		
26 27 26 00-0230 Wall Plates (26 27 26 00-0229)		
26 27 26 00-0231 Nylon Wall Plates (26 27 26 00-0230)		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates.....	1.97	0.68
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates.....	3.27	1.02
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates.....	4.59	1.37
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate	6.48	1.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate.....	1.98	0.68
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate.....	3.34	1.02
26 27 26 00-0238 Plastic Wall Plates (26 27 26 00-0230)		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates.....	1.85	0.68
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates.....	3.03	1.02
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates.....	4.21	1.37
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates.....	6.48	1.72
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate.....	1.85	0.68
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate.....	3.03	1.02
26 27 26 00-0245 Brass Wall Plates (26 27 26 00-0230)		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates.....	17.51	3.08
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates.....	31.73	3.56
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates.....	45.83	3.97
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates.....	70.40	4.31
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates.....	85.42	4.59
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates.....	98.62	4.80
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	17.51	3.08
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	36.89	3.56
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	52.64	3.97
26 27 26 00-0255 Stainless Steel Wall Plates (26 27 26 00-0230)		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	10.05	3.08
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	15.44	3.56
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	21.10	3.97
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	30.22	4.31
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	35.36	4.59
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	42.40	4.80
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	10.87	3.08
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	17.37	3.56
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	27.49	3.97
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	33.00	4.31
26 27 26 00-0266 Chrome Wall Plates (26 27 26 00-0230)		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate.....	33.56	3.08
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate.....	61.79	3.56
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate.....	89.99	3.97
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....	33.53	3.08
26 27 26 00-0271 Weatherproof Covers (26 27 26 00-0229)		
26 27 26 00-0272 Stamped Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	10.33	0.68
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	11.16	0.68
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	11.16	0.68
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	11.16	0.68
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	13.79	1.02
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	15.58	1.02
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	15.76	1.02
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	15.76	1.02
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	21.22	1.02
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	20.32	1.37
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	22.15	1.37
26 27 26 00-0284 Cast Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	12.56	0.68
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	39.26	0.68
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	43.98	0.68
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	12.47	0.68
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	33.34	0.68
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	55.21	0.68
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	70.18	0.68
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	15.76	1.02
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	110.84	1.02
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	26.18	1.37
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	106.10	1.37
26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	5.32	0.68
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	6.77	0.68

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	9.12	1.02
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	9.88	1.02
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	9.88	1.02
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	10.96	1.02
26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271) Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	52.41	0.68
26 27 26 00-0305 Polycarbonate Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.73	0.68
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.73	0.68
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.73	0.68
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.32	1.02
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	13.32	1.02
26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	74.24	0.68
26 27 26 00-0313 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.03	0.68
26 27 26 00-0315 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	13.03	1.02
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.07	0.68
26 27 26 00-0317 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	26.28	0.68
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	30.42	0.68
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	24.71	0.68
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	18.48	0.68
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	21.58	0.68
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	19.33	0.68
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	27.84	1.02
26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	90.02	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	11.40	
26 27 26 00-0327 Relay Systems (26 27 26)		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay	94.62	30.79
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	382.37	102.62
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	628.21	136.83
26 27 26 00-0331 Limit Switches (26 27 26)		
26 27 26 00-0332 Heavy Duty Precision Oiltight (26 27 26 00-0331)		
26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0332)		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	443.89	86.20
26 27 26 00-0335 In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder	87.91	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder.....	184.96	
26 27 33 Power Distribution Units (26 27) Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	17,322.86	420.74
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	20,891.06	456.04
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	23,801.98	506.26
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	27,368.88	547.31
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	29,907.56	684.14
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	33,578.75	820.96
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	38,748.85	957.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	40,787.89	1,094.61
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	43,126.70	1,231.44
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA	1,586.04	136.83
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA	2,353.94	171.03
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA	5,220.32	205.24
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit	2,189.23	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,641.93	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	76.60	17.57
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	133.19	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G)	126.50	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300)	99.17	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Chimes (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete	736.23	285.01
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	292.79	68.41
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete	119.65	34.21
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	27.43	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.99	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.39	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.30	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.86	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.77	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.51	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.37	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.05	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.67	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.24	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.93	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	36.00	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.35	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.17	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	35.82	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	35.02	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	32.88	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	32.72	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^(26 28)		
<small>13 00-0013</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	111.44	12.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	115.01	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.45	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.89	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	200.38	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.22	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.57	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.10	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	373.47	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	379.04	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	425.05	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	386.86	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	680.07	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	611.81	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	536.50	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.33	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.84	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.69	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.53	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	44.95	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.08	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	45.62	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.55	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.92	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	40.47	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.70	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse ^(26 28 13)		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	48.75	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	49.08	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.18	8.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.60	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	46.40	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.68	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.67	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	50.62	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	80.64	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	70.30	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	79.06	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0102	EA		50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.01 10.26	17.10
26 28 13 00-0103	EA		60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.90 10.26	17.10
26 28 13 00-0104	EA		70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.54 12.32	20.52
26 28 13 00-0105	EA		80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.68 12.32	20.52
26 28 13 00-0106	EA		90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.11 12.32	20.52
26 28 13 00-0107	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.68 14.37	23.95
26 28 13 00-0108	EA		110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.17 14.37	23.95
26 28 13 00-0109	EA		125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.16 14.37	23.95
26 28 13 00-0110	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.90 16.42	27.36
26 28 13 00-0111	EA		175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.29 16.42	27.36
26 28 13 00-0112	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.38 16.42	27.36
26 28 13 00-0113	EA		225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	366.10 16.42	27.36
26 28 13 00-0114	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	340.05 16.42	27.36
26 28 13 00-0115	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.98 16.42	27.36
26 28 13 00-0116	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.66 16.42	27.36
26 28 13 00-0117	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.33 18.47	30.79
26 28 13 00-0118	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	585.98 18.47	30.79
26 28 13 00-0119	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	503.53 20.52	34.21
26 28 13 00-0120	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	381.25 20.52	34.21
26 28 13 00-0121			600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28 13 00-0122	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.16 10.26	17.10
26 28 13 00-0123	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,091.28 10.26	17.10
26 28 13 00-0124	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,093.26 10.26	17.10
26 28 13 00-0125	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,092.50 12.32	20.52
26 28 13 00-0126	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,007.45 12.32	20.52
26 28 13 00-0127	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,079.56 14.37	23.95
26 28 13 00-0128	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	995.13 14.37	23.95
26 28 13 00-0129	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,110.75 14.37	23.95
26 28 13 00-0130	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.45 14.37	23.95
26 28 13 00-0131	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	973.83 16.42	27.36
26 28 13 00-0132	EA		601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	999.45 16.42	27.36
26 28 13 00-0133	EA		650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,321.52 16.42	27.36
26 28 13 00-0134	EA		700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	969.18 16.42	27.36
26 28 13 00-0135	EA		750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,479.19 18.47	30.79
26 28 13 00-0136	EA		800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	862.53 18.47	30.79
26 28 13 00-0137	EA		900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,248.10 18.47	30.79
26 28 13 00-0138	EA		1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	848.44 18.47	30.79
26 28 13 00-0139	EA		1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	872.95 18.47	30.79
26 28 13 00-0140	EA		1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,910.17 18.47	30.79
26 28 13 00-0141	EA		1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,883.68 18.47	30.79
26 28 13 00-0142	EA		1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,701.95 18.47	30.79



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,075.45	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,248.20	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,449.26	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,949.41	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,301.36	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,172.77	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,460.56	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,170.88	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,002.93	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,721.38	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,795.66	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	

26 28 16 Enclosed Switches and Circuit Breakers (26 28)

26 28 16 13 Enclosed Circuit Breakers (26 28 16)

26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)

Note: Includes connection of electrical wire.

26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	61.48	24.63
For Bolt-On, Add	17.26	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	61.48	24.63
For Bolt-On, Add	17.26	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	83.98	30.79
For Bolt-On, Add	22.47	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	110.75	30.79
For Bolt-On, Add	25.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	141.36	30.79
For Bolt-On, Add	29.64	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	158.81	30.79
For Bolt-On, Add	31.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity	93.89	30.79
For Bolt-On, Add	23.71	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	97.67	36.94
For Bolt-On, Add	26.58	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	97.67	36.94
For Bolt-On, Add	26.58	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	140.60	49.26
For Bolt-On, Add	36.73	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	212.10	61.57
For Bolt-On, Add	50.46	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	244.98	68.41
For Bolt-On, Add	56.96	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	194.13	43.79
For Bolt-On, Add	41.51	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	244.20	43.79
For Bolt-On, Add	47.76	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	211.80	61.57
For Bolt-On, Add	50.42	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	300.40	73.88
For Bolt-On, Add	66.28	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	374.88	86.20
For Bolt-On, Add	80.38	
For Installation In New Panelboard, Deduct	-47.89	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	124.53	30.79
For Bolt-On, Add	27.54	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	175.99	30.79
For Bolt-On, Add	33.97	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	250.31	49.26
For Bolt-On, Add	50.44	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 335.30		61.57
For Bolt-On, Add	65.86	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 469.21		68.41
For Bolt-On, Add	84.99	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 212.40		49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 212.40		49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 305.17		61.57
For Bolt-On, Add	62.09	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 420.00		73.88
For Bolt-On, Add	81.23	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 621.22		86.20
For Bolt-On, Add	111.18	
For Installation In New Panelboard, Deduct	-47.89	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 709.54		92.36
For Bolt-On, Add	124.61	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 761.54		98.51
For Bolt-On, Add	133.50	
For Installation In New Panelboard, Deduct	-54.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.68	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity 888.87		104.67
For Bolt-On, Add	151.82	
For Installation In New Panelboard, Deduct	-58.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.78	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(26 28</small>		
<small>16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 87.76		24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 87.76		24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 134.82		30.79
For Bolt-On, Add	28.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 166.59		36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 166.59		36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity 276.36		49.26
For Bolt-On, Add	53.70	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	642.39	61.57
For Bolt-On, Add	104.24	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
For Bolt-On, Add	51.31	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
For Bolt-On, Add	51.31	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	337.80	61.57
For Bolt-On, Add	66.17	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	792.84	73.88
For Bolt-On, Add	127.84	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <small>(26 28</small>		
<small>16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
For Bolt-On, Add	21.65	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
For Bolt-On, Add	21.65	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	115.67	30.79
For Bolt-On, Add	26.43	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	174.81	30.79
For Bolt-On, Add	33.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
For Bolt-On, Add	38.08	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
For Bolt-On, Add	38.08	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.52	49.26
For Bolt-On, Add	48.47	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	328.56	61.57
For Bolt-On, Add	65.02	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	412.92	68.41
For Bolt-On, Add	77.95	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	511.00	80.05
For Bolt-On, Add	95.00	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	557.38	92.36
For Bolt-On, Add	105.59	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0064	EA		15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
			<i>For Bolt-On, Add</i>	48.52	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0065	EA		35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
			<i>For Bolt-On, Add</i>	48.52	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0066	EA		70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	279.38	61.57
			<i>For Bolt-On, Add</i>	58.87	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0067	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	404.71	73.88
			<i>For Bolt-On, Add</i>	79.32	
			<i>For Installation In New Panelboard, Deduct</i>	-41.05	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 28 16 13-0068	EA		150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	529.65	95.78
			<i>For Bolt-On, Add</i>	103.32	
			<i>For Installation In New Panelboard, Deduct</i>	-53.02	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.63	
26 28 16 13-0069	EA		250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	647.23	110.83
			<i>For Bolt-On, Add</i>	124.00	
			<i>For Installation In New Panelboard, Deduct</i>	-61.57	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
26 28 16 13-0070	EA		300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	687.42	117.67
			<i>For Bolt-On, Add</i>	131.42	
			<i>For Installation In New Panelboard, Deduct</i>	-64.99	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.99	
26 28 16 13-0071			Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0072	EA		15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	195.45	36.94
			<i>For Bolt-On, Add</i>	38.80	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0073	EA		35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	195.45	36.94
			<i>For Bolt-On, Add</i>	38.80	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0074	EA		70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	290.29	49.26
			<i>For Bolt-On, Add</i>	55.44	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0075	EA		110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	453.18	61.57
			<i>For Bolt-On, Add</i>	80.59	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0076	EA		150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	687.06	76.62
			<i>For Bolt-On, Add</i>	115.81	
			<i>For Installation In New Panelboard, Deduct</i>	-42.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.31	
26 28 16 13-0077	EA		250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	771.64	80.05
			<i>For Bolt-On, Add</i>	127.58	
			<i>For Installation In New Panelboard, Deduct</i>	-44.47	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.36	
26 28 16 13-0078	EA		300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	848.02	92.36
			<i>For Bolt-On, Add</i>	141.92	
			<i>For Installation In New Panelboard, Deduct</i>	-51.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.57	
26 28 16 13-0079	EA		15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	277.06	49.26
			<i>For Bolt-On, Add</i>	53.79	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0080	EA		35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	277.06	49.26
			<i>For Bolt-On, Add</i>	53.79	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	348.53	61.57
For Bolt-On, Add	67.51	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	561.06	73.88
For Bolt-On, Add	98.87	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	807.51	95.78
For Bolt-On, Add	138.05	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	951.94	110.83
For Bolt-On, Add	162.09	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,027.01	117.67
For Bolt-On, Add	173.87	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	343.22	49.26
For Bolt-On, Add	62.06	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	599.93	61.57
For Bolt-On, Add	98.94	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	929.64	76.62
For Bolt-On, Add	146.14	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,050.63	80.05
For Bolt-On, Add	162.46	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,149.09	92.36
For Bolt-On, Add	179.55	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	417.34	61.57
For Bolt-On, Add	76.11	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	728.73	73.88
For Bolt-On, Add	119.82	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	922.78	95.78
For Bolt-On, Add	152.46	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,430.96	110.83
For Bolt-On, Add	221.97	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,522.97	117.67
For Bolt-On, Add	235.87	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	111.06	24.63
For Bolt-On, Add	23.46	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	111.06	24.63
For Bolt-On, Add	23.46	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	180.37	30.79
For Bolt-On, Add	34.52	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	224.66	36.94
For Bolt-On, Add	42.45	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	224.66	36.94
For Bolt-On, Add	42.45	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	391.80	49.26
For Bolt-On, Add	68.13	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	696.96	61.57
For Bolt-On, Add	111.07	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,312.89	76.62
For Bolt-On, Add	194.04	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	359.11	49.26
For Bolt-On, Add	64.04	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	359.11	49.26
For Bolt-On, Add	64.04	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	476.19	61.57
For Bolt-On, Add	83.47	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	856.64	73.88
For Bolt-On, Add	135.81	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,632.11	95.78
For Bolt-On, Add	241.13	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	151.76	24.63
For Bolt-On, Add	28.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	151.76	24.63
For Bolt-On, Add	28.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	223.66	30.79
For Bolt-On, Add	39.93	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	493.17	49.26
For Bolt-On, Add	80.80	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	868.97	61.57
For Bolt-On, Add	132.57	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,680.94	68.41
For Bolt-On, Add	236.46	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	621.99	61.57
For Bolt-On, Add	101.69	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	984.54	73.88
For Bolt-On, Add	151.80	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,130.66	95.78
For Bolt-On, Add	303.45	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	81.50	24.63
For Bolt-On, Add	19.77	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	157.55	36.94
For Bolt-On, Add	34.06	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	240.89	49.26
For Bolt-On, Add	49.27	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	288.53	49.26
For Bolt-On, Add	55.22	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	580.60	49.26
For Bolt-On, Add	91.73	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	966.00	61.57
For Bolt-On, Add	144.70	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,074.71	76.62
For Bolt-On, Add	289.27	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	702.54	61.57
For Bolt-On, Add	111.76	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,055.11	73.88
For Bolt-On, Add	160.62	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,579.61	95.78
For Bolt-On, Add	359.57	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	

26 28 16 16 Enclosed Switches (26 28 16)

- 26 28 16 16-0001 Motor And Circuit Disconnects (26 28 16 16)
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.
- 26 28 16 16-0002 NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)
- 26 28 16 16-0003 Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)
Note: Includes fuses and neutral bar.
- 26 28 16 16-0004 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0005 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	464.75	136.83
26 28 16 16-0006 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	711.94	164.87
26 28 16 16-0007 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	966.04	192.93
26 28 16 16-0008 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,653.74	303.75
26 28 16 16-0009 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,452.40	472.05
26 28 16 16-0010 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,731.93	697.82
26 28 16 16-0011 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,771.32	820.96
26 28 16 16-0012 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,380.78	957.79
26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	686.60	152.02
26 28 16 16-0015 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	828.29	183.21
26 28 16 16-0016 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,288.84	214.13
26 28 16 16-0017 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,913.53	337.96
26 28 16 16-0018 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,096.96	524.32
26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,370.89	774.99
26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,334.85	911.68
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,686.60	1,064.24
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	668.70	214.82
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	973.59	285.29
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,286.14	316.75
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,032.57	496.00
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,142.55	814.12
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,669.79	1,140.45
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	857.63	237.39
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,095.51	316.75
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,573.36	356.44
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,323.44	543.20
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,051.90	877.06
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,076.11	1,267.02
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,662.33	1,505.10
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,106.86	1,710.34
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	650.35	214.82
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	949.88	285.29
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,243.00	316.75



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,091.91	496.00
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,476.98	814.12
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,172.91	1,140.45
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,705.19	1,436.68
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,386.34	1,641.93
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	924.97	237.39
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,178.26	316.75
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,694.36	356.44
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,504.57	543.20
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,438.36	877.06
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,758.64	1,267.02
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,795.49	1,505.10
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,330.91	1,710.34
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	453.14	197.99
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	695.62	275.43
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	942.48	316.75
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,478.98	506.80
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,937.96	844.63
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,744.45	1,151.81
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,708.23	1,368.27
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,804.01	1,596.91
26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	500.45	218.51
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	786.94	309.10
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,063.68	351.92
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,651.90	550.87
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,160.67	904.97
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,246.88	1,266.88
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,400.92	1,368.27
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,752.62	1,596.91
26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	535.80	177.88
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	810.61	247.65
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,074.72	285.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,691.64	456.31
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,328.45	760.08
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,293.56	1,036.46
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,898.40	1,231.44
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,531.70	1,436.68
26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0085 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	585.41	196.34
26 28 16 16-0086 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.55	278.45
26 28 16 16-0087 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,174.10	316.75
26 28 16 16-0088 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,826.64	496.00
26 28 16 16-0089 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,566.18	814.12
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,730.90	1,140.45
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,356.31	1,231.44
26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	619.58	196.62
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	951.82	278.16
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,268.87	316.75
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,972.61	495.72
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,770.36	814.39
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,335.19	1,140.18
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,046.52	1,231.44
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,077.28	1,436.68
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.00	178.15
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,056.76	247.93
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,582.40	285.01
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,385.98	456.04
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	937.13	196.34
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,157.31	278.45
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,718.06	316.75
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,570.59	496.00
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,032.24	196.62
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,262.21	278.16



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,906.71	316.75
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,845.39	495.72
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
<small>Note: Includes fuses and neutral bar.</small>		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	332.05	119.04
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	445.09	143.26
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	663.63	167.48
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,210.18	264.22
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,791.49	409.79
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,156.96	606.56
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	467.85	187.05
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	653.98	247.93
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	879.50	275.43
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,545.15	431.14
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,390.82	708.22
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,931.79	991.45
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	512.22	187.05
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	725.53	247.93
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	944.60	275.43
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,709.17	431.14
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,671.17	708.22
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,109.50	991.45
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	454.88	165.56
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	593.55	190.32
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,290.54	304.17
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,709.78	506.26
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,616.83	689.88
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	429.15	154.88
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	589.31	215.50

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.58	247.93
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,476.16	396.66
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,020.35	661.14
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,041.37	901.14
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	666.55	160.77
26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,035.35	192.93
26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,287.35	224.40
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,889.80	342.07
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,092.80	547.31
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,081.87	729.97
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,509.07	820.96
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,873.64	957.79
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,122.34	214.27
26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,339.45	262.70
26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,872.79	301.70
26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,649.59	452.49
26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,668.70	740.37
26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,287.89	1,018.13
26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,996.59	1,172.34
26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,531.50	1,319.69
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	869.51	253.13
26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,353.59	335.23
26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,616.94	368.06
26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,407.39	569.89
26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,093.69	950.26
26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,370.26	1,267.02
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,295.95	300.06
26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,550.15	367.79
26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,047.49	422.25



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,982.26	633.51
26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,161.89	1,036.60
26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,952.51	1,425.33
26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,354.59	1,641.93
26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,333.26	1,847.17
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153</small>		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	944.76	253.13
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,355.77	335.23
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,722.74	368.06
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,477.96	569.89
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,158.43	950.26
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,082.28	1,267.02
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,889.40	1,436.68
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,500.87	1,641.93
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153</small>		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,339.12	300.34
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,598.69	368.06
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,155.37	422.11
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,052.38	633.51
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,415.41	1,036.46
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,243.79	1,425.05
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,271.80	1,641.93
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,542.27	1,847.17
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	628.12	140.80
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,011.86	194.98
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,317.56	223.58
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,778.38	362.05
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,880.06	603.95
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,959.38	805.23
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,064.12	958.20
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,539.38	1,095.02
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	705.88	155.16
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,145.25	217.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,484.91	245.19
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,965.23	380.10
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,383.11	633.51
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,504.08	844.63
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,792.46	1,003.77
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,489.67	1,140.18
26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	768.89	211.12
26 28 16 16-0227 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,206.77	292.40
26 28 16 16-0228 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,541.13	335.37
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,140.36	543.06
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,538.18	905.79
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,870.76	1,207.49
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,140.84	1,436.68
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,971.81	1,641.93
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	836.74	232.61
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,318.04	325.79
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,668.21	367.79
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,269.96	570.16
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,821.50	950.13
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,378.50	1,266.88
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,939.36	1,505.10
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,012.68	1,710.34
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	493.48	232.61
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,362.44	325.79
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,730.12	367.79
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,345.30	570.16
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,016.56	950.13
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,348.69	1,266.88
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,922.66	1,505.10
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,989.96	1,710.34
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	424.04	139.83
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	586.67	167.75
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	761.64	195.11
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,521.51	297.46
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,623.14	475.88
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,339.71	634.87
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
<small>28 16 16-0252)</small>		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	585.67	220.43
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	834.69	291.58
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,010.63	319.90
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,919.05	495.72
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,325.59	826.16
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,282.86	1,102.01
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
<small>28 16 16-0252)</small>		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	647.83	220.29
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	897.17	291.58
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,211.51	319.90
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,048.74	495.72
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,408.90	826.30
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,932.59	1,102.01
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,207.89	1,248.40
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	381.15	122.46
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	611.66	169.53
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	649.32	194.43
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,556.65	314.71
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,722.13	525.14
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,473.14	700.14
26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	593.43	183.62
26 28 16 16-0285 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	850.33	254.23
26 28 16 16-0286 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,213.32	291.58
26 28 16 16-0287 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,074.56	472.19
26 28 16 16-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small> Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0291 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,656.37	136.83
26 28 16 16-0292 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,989.91	164.87
26 28 16 16-0293 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,003.46	192.66
26 28 16 16-0294 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,551.95	304.03
26 28 16 16-0295 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,229.74	471.78
26 28 16 16-0296 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,149.45	697.55
26 28 16 16-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0298 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,093.51	152.02
26 28 16 16-0299 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,333.57	183.08
26 28 16 16-0300 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,330.77	214.00
26 28 16 16-0301 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,134.51	337.96
26 28 16 16-0302 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,675.72	524.60
26 28 16 16-0303 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,750.19	774.99
26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,885.31	215.09
26 28 16 16-0306 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,369.06	285.01
26 28 16 16-0307 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,430.56	316.75
26 28 16 16-0308 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,315.98	495.72
26 28 16 16-0309 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,255.33	814.39
26 28 16 16-0310 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,480.73	1,140.18
26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,270.12	237.54
26 28 16 16-0313 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,606.93	316.75
26 28 16 16-0314 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,627.45	356.30
26 28 16 16-0315 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,561.43	542.93
26 28 16 16-0316 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,670.70	877.06
26 28 16 16-0317 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,037.25	1,266.88
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,237.15	215.09
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,808.89	285.01
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,310.67	316.75
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,519.49	495.72
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,623.97	814.39



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,735.82	1,140.18
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,685.86	237.54
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,078.36	316.75
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,525.82	356.30
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,775.00	542.93
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,071.31	877.06
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,336.72	1,266.88
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,591.44	136.83
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,946.53	190.32
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,608.85	218.92
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,025.37	349.72
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,127.39	582.34
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,056.47	793.32
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,807.99	150.92
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,216.24	213.45
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,110.48	243.28
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,704.15	380.10
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,351.40	625.57
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,859.93	875.69
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,674.10	178.15
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,036.62	247.93
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,135.89	285.01
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,083.15	456.04
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,846.15	760.21
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,920.71	1,036.60
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,899.21	196.62
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,345.66	278.16
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,257.43	316.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,935.33	495.72
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,780.99	814.39
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,820.53	1,140.18
26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,275.60	178.15
26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,742.14	247.93
26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,062.80	285.01
26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,257.13	456.04
26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,586.64	196.62
26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,123.51	278.16
26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,910.81	316.75
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,528.59	495.72
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,011.63	237.39
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,451.05	316.75
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,118.95	356.44
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,995.90	543.20
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,809.95	196.34
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,242.17	278.45
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,776.51	316.75
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,877.75	496.00
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,430.24	237.39
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,919.46	316.75
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,004.78	356.44
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,206.03	196.34
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,685.68	278.45
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,626.77	316.75



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0391	NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392	Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches	
<small>(26 28 16 16-0391)</small>		
Note: With fuses and neutral bar.		
26 28 16 16-0393 EA	30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,746.85 273.66
26 28 16 16-0394 EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,108.35 325.79
26 28 16 16-0395 EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,449.68 367.79
26 28 16 16-0396 EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	7,237.18 570.16
26 28 16 16-0397	Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>	
26 28 16 16-0398 EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,178.24 325.79
26 28 16 16-0399 EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,543.85 367.79
26 28 16 16-0400 EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	4,634.73 570.16
26 28 16 16-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
26 28 16 16-0402	Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>	
Note: With fuses and neutral bar.		
26 28 16 16-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0404 EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	638.84 136.83
26 28 16 16-0405 EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	828.79 164.87
26 28 16 16-0406 EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,118.20 192.93
26 28 16 16-0407 EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,877.74 303.75
26 28 16 16-0408 EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,937.37 472.05
26 28 16 16-0409 EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,048.08 697.82
26 28 16 16-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0411 EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	978.33 151.88
26 28 16 16-0412 EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,019.12 183.35
26 28 16 16-0413 EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,448.38 214.13
26 28 16 16-0414 EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,267.28 337.96
26 28 16 16-0415 EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,862.92 524.05
26 28 16 16-0416 EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,515.75 775.13
26 28 16 16-0417	240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0418 EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	897.69 214.82
26 28 16 16-0419 EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,238.41 285.29
26 28 16 16-0420 EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,662.05 316.75
26 28 16 16-0421 EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,480.22 496.00
26 28 16 16-0422 EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,806.02 814.12
26 28 16 16-0423 EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,649.79 1,140.45
26 28 16 16-0424	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0425 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,176.34 237.39
26 28 16 16-0426 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,350.88 316.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,947.88	356.44
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,844.41	543.20
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,859.11	877.06
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,873.13	1,267.02
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.51	214.82
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,276.76	285.29
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,782.41	316.75
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,631.32	496.00
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,210.59	814.12
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,923.11	1,140.45
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,241.05	237.39
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,523.50	316.75
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,066.57	356.44
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,070.96	543.20
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,225.90	877.06
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,175.20	1,267.02
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	666.00	197.72
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	886.65	275.71
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,162.75	316.75
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,672.77	506.94
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,606.93	844.90
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,662.07	1,152.09
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	741.75	218.24
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	986.13	309.23
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,295.64	351.65
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,817.56	550.73
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,822.64	905.11
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,255.58	1,267.02
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	858.46	177.88
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,134.39	247.65



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,493.95	285.29
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,150.46	456.31
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,456.34	760.08
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,972.63	1,036.46
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	848.45	196.34
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,230.48	278.45
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,604.40	316.75
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,140.45	496.00
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,493.17	814.12
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,267.93	1,140.45
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,018.14	177.88
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,225.20	247.65
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,865.98	285.29
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,960.44	456.31
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,265.65	581.52
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,062.06	196.34
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,338.36	278.45
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,998.17	316.75
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,052.04	496.00
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,655.95	766.23
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	803.56	175.82
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,175.27	229.87
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,639.88	300.34
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,182.89	390.64
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,090.46	488.48
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,219.79	783.33
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,653.06	1,094.61
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,550.80	1,231.44
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	18,291.09	1,368.27
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,023.46	246.29
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,419.97	321.54
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,112.51	420.74
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,074.57	547.31
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,018.77	684.14
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,849.30	1,094.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,509.58	1,231.44
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,308.69	1,368.27
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,289.96	1,505.10
26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,352.33	307.86
26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,949.54	402.27
26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,386.50	525.42
26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,624.67	682.77
26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,117.37	855.16
26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,647.60	1,370.32
26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,652.22	1,505.10
26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,324.45	1,573.51
26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	21,627.84	1,641.93
26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,343.57	229.87
26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,002.58	300.34
26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,931.77	390.64
26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,745.88	488.48
26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,995.50	783.33
26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,499.48	1,094.61
26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,859.59	1,231.44
26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,846.55	1,368.27
26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,526.72	321.54
26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,242.73	420.74
26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,243.75	547.31
26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,136.87	684.14
26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,619.84	1,094.61
26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,414.25	1,231.44
26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,954.98	1,368.27
26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,917.95	1,505.10
26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,054.99	402.27
26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,538.59	525.42
26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,939.71	682.77
26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,788.06	855.16
26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,397.92	1,370.32
26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,816.42	1,505.10
26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,942.20	1,573.51
26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	23,462.23	1,641.93
26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,021.28	300.34
26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,523.88	390.64
26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,520.81	488.48
26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	24,987.45	783.33
26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,659.43	420.06
26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,244.11	546.62
26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	15,039.42	684.14
26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	16,476.63	1,096.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0557 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,526.88	307.99
26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,141.07	402.00
26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,389.70	525.28
26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,320.05	683.04
26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,616.29	855.16
26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,523.52	1,370.45
26 28 16 16-0563 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,704.95	229.87
26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,576.44	300.34
26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,631.74	390.64
26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,813.59	488.48
26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,827.57	783.33
26 28 16 16-0569 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,954.53	321.54
26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,920.82	420.06
26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,146.34	546.62
26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,617.06	684.14
26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,991.24	1,096.67
26 28 16 16-0575 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,165.46	402.00
26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,400.88	525.28
26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,475.37	683.04
26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,597.95	855.16
26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,624.60	1,370.45
26 28 16 16-0581 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0582 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,995.68	175.95
26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,271.94	229.73
26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,585.88	300.20
26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,546.62	390.36
26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,536.28	488.61
26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,611.00	783.06
26 28 16 16-0589 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,309.95	246.29
26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,743.51	321.54
26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,270.29	420.06
26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,544.73	546.62
26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,166.48	684.14
26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,863.41	1,096.67
26 28 16 16-0596 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,428.43	307.99
26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,026.88	402.00
26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,511.30	525.28
26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,476.09	683.04
26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,685.28	855.16
26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	17,118.50	1,370.45
26 28 16 16-0603 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,969.79	229.73
26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,144.91	300.20
26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,895.59	390.36
26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,479.67	488.61
26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,434.14	783.06

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0609	600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0610	EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,285.69	321.54
26 28 16 16-0611	EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,519.11	420.06
26 28 16 16-0612	EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,476.52	546.62
26 28 16 16-0613	EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,265.25	684.14
26 28 16 16-0614	EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,576.69	1,096.67
26 28 16 16-0615	600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0616	EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,066.63	402.00
26 28 16 16-0617	EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,804.57	525.28
26 28 16 16-0618	EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,648.95	683.04
26 28 16 16-0619	EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,057.35	855.16
26 28 16 16-0620	EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	17,611.68	1,370.45
26 28 16 16-0621	Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small>		
	Note: Includes storage and cleaning.		
26 28 16 16-0622	EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	684.14	
26 28 16 16-0623	EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	889.41	
26 28 16 16-0624	EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	992.07	
26 28 16 16-0625	EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,163.10	
26 28 16 16-0626	Bolted Contact Switches <small>(26 28 16 16)</small>		
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0627	Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628	Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0629	EA 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	8,880.53	1,368.27
26 28 16 16-0630	EA 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	9,691.44	1,641.93
26 28 16 16-0631	EA 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	10,608.80	1,915.58
26 28 16 16-0632	EA 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	11,282.84	2,189.23
26 28 16 16-0633	EA 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	12,737.55	2,462.88
26 28 16 16-0634	EA 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	15,804.30	2,736.54
26 28 16 16-0635	EA 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	21,106.43	3,283.85
26 28 16 16-0636	Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0637	EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	9,372.25	1,368.27
26 28 16 16-0638	EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	10,279.48	1,641.93
26 28 16 16-0639	EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	11,191.77	1,915.58
26 28 16 16-0640	EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	12,119.27	2,189.23
26 28 16 16-0641	EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	13,639.89	2,462.88
26 28 16 16-0642	EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	17,497.45	2,736.54
26 28 16 16-0643	EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	22,870.54	3,283.85
26 28 16 16-0644	Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0645	Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0646	EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	6,670.31	1,368.27
26 28 16 16-0647	EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	7,507.59	1,641.93
26 28 16 16-0648	EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	8,386.42	1,915.58
26 28 16 16-0649	EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	9,259.18	2,189.23
26 28 16 16-0650	EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	10,182.63	2,462.88
26 28 16 16-0651	EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	13,249.38	2,736.54
26 28 16 16-0652	EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	18,490.67	3,283.85
26 28 16 16-0653	Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0654	EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	6,995.76	1,368.27
26 28 16 16-0655	EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	7,999.31	1,641.93
26 28 16 16-0656	EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	8,862.93	1,915.58
26 28 16 16-0657	EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	9,888.78	2,189.23
26 28 16 16-0658	EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	10,973.44	2,462.88
26 28 16 16-0659	EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	14,815.79	2,736.54
26 28 16 16-0660	EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	20,133.12	3,283.85

26 29 Low-Voltage Controllers (26 20)

26 29 13 Enclosed Controllers (26 29)

26 29 13 13 Across-The-Line Motor Controllers (26 29 13)



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0001 Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002 Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	244.79	68.51
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	320.49	89.06
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	274.86	68.51
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	350.56	89.06
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	257.82	68.51
For Oversized Enclosure, Add	30.07	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	337.53	89.06
For Oversized Enclosure, Add	30.07	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	506.74	82.22
For Pilot Light, Add	115.27	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	585.45	102.77
For Pilot Light, Add	115.27	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	536.81	82.22
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	612.51	102.77
26 29 13 13-0013 Non Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	200.86	68.51
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	322.25	89.06
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	226.16	75.37
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	348.51	95.92
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	228.91	68.51
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	351.26	89.06
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	468.12	82.22
For Pilot Light, Add	110.26	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	578.87	102.77
For Pilot Light, Add	110.26	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	494.41	89.06
For Pilot Light, Add	110.26	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	602.24	109.62
For Pilot Light, Add	110.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	495.20	82.22
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	613.69	102.77
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	146.21	47.96
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	267.60	68.51
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	171.52	54.81
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	292.89	75.37
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0030 Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	524.23	123.32
<i>For Pilot Light, Add</i>	112.19	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	755.38	164.43
<i>For Pilot Light, Add</i>	112.19	
26 29 13 13-0033 Two Speed Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	524.23	123.32
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	755.38	164.43
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	472.17	82.22
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	472.17	82.22
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	956.64	95.92
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1)	956.64	95.92
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1)	1,241.30	95.92
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	598.80	95.92
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1)	400.99	61.66
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	558.05	89.06
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	558.05	89.06
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,141.75	102.77
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,141.75	102.77
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,448.47	102.77
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	684.68	102.77
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1)	486.87	68.51
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	727.10	95.92
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	727.10	95.92
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,353.91	109.62
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,353.91	109.62
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,647.60	109.62
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	856.75	109.62
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	658.93	75.37
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	584.95	102.77
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2)	584.95	102.77
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,069.42	116.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,069.42	116.48
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,362.11	116.48
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	712.59	116.48
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	516.78	82.22
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	670.82	109.62
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	670.82	109.62
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,254.53	123.32
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,254.53	123.32
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,568.27	123.32
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	797.46	123.32
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	599.65	89.06
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,338.74	143.88
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,338.74	143.88
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,171.33	102.77
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,579.64	157.58
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,412.23	116.48
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,338.74	143.88
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,171.33	102.77
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,579.64	157.58
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,412.23	116.48
26 29 13 13-0083 Magnetic Motor Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)		
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	561.72	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	631.23	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	603.82	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	674.33	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	743.83	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	939.32	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,178.89	246.65
<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	701.40	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	770.89	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	842.40	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,079.99	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,318.57	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,157.80	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,295.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,689.77	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,724.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,976.44	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,512.40	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,563.56	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,854.54	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,249.17	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,727.33	479.59
<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,690.22	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,564.67	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,031.00	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	31,562.52	1,233.22
<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	592.80	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	662.30	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	634.89	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	706.41	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	775.91	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	973.40	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,213.98	246.65
<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	734.47	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	805.98	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	875.47	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,114.07	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4)	1,351.65	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1)	1,306.15	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2)	1,444.50	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3)	1,838.12	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1)	2,015.83	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2)	2,267.12	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3)	2,804.09	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1)	4,458.96	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2)	4,853.58	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2)	9,666.25	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2)	26,875.33	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2)	36,420.89	1,233.22
<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1)	877.81	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2)	947.31	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2)	1,046.88	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1)	1,618.88	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2)	1,758.23	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1)	2,386.70	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2)	2,636.99	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2)	6,081.45	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2)	12,808.60	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2)	30,728.34	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12)	1,276.08	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11)	1,320.18	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12)	1,389.68	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13)	1,628.28	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,472.90	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,722.53	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SF12).....	7,338.39	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,808.60	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,012.02	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0157			NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,513.33	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0159			Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160			Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	660.96	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	688.37	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	737.48	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	815.00	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,304.19	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	837.05	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	977.71	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	1,019.81	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,249.01	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,424.45	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	2,189.94	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,577.94	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	10,269.66	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	23,451.32	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	33,799.75	1,233.22
			<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0176			NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	694.03	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	721.44	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	770.56	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	848.07	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	869.12	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	947.64	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	1,053.89	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,398.36	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,573.80	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,481.62	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	5,182.35	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	11,374.25	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0189 NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	941.96	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	1,019.48	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	1,040.52	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,119.04	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,225.29	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,712.10	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,886.53	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,851.49	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,409.22	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	14,513.59	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	34,448.04	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	941.96	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	1,019.48	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	1,040.52	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,119.04	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,225.29	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0207 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,712.10	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,886.53	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,851.49	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	6,409.22	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	3,204.29	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,303.87	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	5,085.72	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	6,136.88	342.56
			<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,757.75	479.59
			<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0218			NEMA 4/4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,269.73	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,348.24	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,383.33	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,461.85	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,568.10	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,424.76	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,936.03	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,665.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	16,928.24	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0228			NEMA 4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,602.21	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,784.01	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	9,377.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0232			NEMA 7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,534.38	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,657.01	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0236	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3)	2,739.55	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0237	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,861.83	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0238	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1)	4,179.60	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0239			Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0240			Open Enclosure, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0241	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,221.28	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0242	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,284.43	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0243	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,420.09	191.83
			<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0244	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,475.57	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0245	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10)	1,510.65	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0246	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,616.24	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0247	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,687.42	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0248	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7)	1,723.50	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0249	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1)	2,902.61	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0250	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1)	4,733.30	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0251	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	10,785.57	616.62
			<i>For Factory Installed Accessory, Deduct</i>	-1,233.22	
26 29 13 13-0252	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1)	19,996.23	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0253	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	64,408.18	1,507.28
			<i>For Factory Installed Accessory, Deduct</i>	-3,014.55	
26 29 13 13-0254			NEMA 1, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0255	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13)	1,254.02	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0256	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15)	1,311.49	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0257	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,347.58	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0258	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,480.24	191.83
			<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0259	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,537.72	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0260	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,573.80	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0261	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,706.45	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0262	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,777.63	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0263	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,813.71	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0264	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,137.16	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0265	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,139.25	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0266	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,531.31	616.62
			<i>For Factory Installed Accessory, Deduct</i>	-1,233.22	
26 29 13 13-0267			NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268	EA		Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,794.32	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0269	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,830.40	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0270	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,070.31	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0271	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,566.16	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0272			NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,229.33	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0274	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,620.59	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0275			Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276	EA		NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	166.85	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0277	EA		NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	280.01	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0278	EA		NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	166.85	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0279	EA		NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	280.01	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0280	EA		NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	280.01	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0281	EA		Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	140.56	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0282	EA		External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	125.70	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0283	EA		External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	166.85	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0284	EA		External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	140.56	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0285	EA		External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	187.43	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0286	EA		30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	208.00	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0287	EA		45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	355.45	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0288	EA		60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	377.17	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0289	EA		30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	451.46	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0290	EA		45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	784.08	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0291	EA		60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	784.08	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0292	EA		Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	50.39	10.28
			<i>For Factory Installed Accessory, Deduct</i>	-20.55	
26 29 13 13-0293	EA		1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	100.55	13.71
			<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0294	EA		2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	132.56	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0295	EA		Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	105.13	17.13
			<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0296	EA		Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	58.62	10.28
			<i>For Factory Installed Accessory, Deduct</i>	-20.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1)	36.90	10.28
<i>For Factory Installed Accessory, Deduct</i>	-20.55	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	181.71	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	312.02	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small>		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	626.56	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	625.55	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	677.01	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	662.64	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	720.11	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	694.72	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	811.02	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	894.21	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,119.09	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	634.24	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	685.69	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	683.69	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	738.15	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	721.78	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	780.25	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	755.86	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	871.16	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	951.34	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53)	1,177.22	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0322 Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory	187.43	17.13
<i>Note: Or Hand-Off-Auto Selector Switch Kit</i>		
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0324 Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>		
26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	373.24	75.37
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	396.97	82.22
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	417.02	82.22
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	342.17	75.37
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	389.28	75.37
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	439.07	82.22
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	84.25	34.26
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	91.99	34.26
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	106.00	34.26
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	133.87	34.26
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,153.96	656.77
For NEMA 4, Add	726.57	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,371.17	875.69
For NEMA 4, Add	1,327.12	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,450.75	1,039.89
For NEMA 4, Add	2,422.20	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	51,789.59	1,272.49
For NEMA 4, Add	6,156.97	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	82,464.80	1,628.24
For NEMA 4, Add	9,900.88	
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,105.55	670.72
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,282.74	877.06
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,289.34	1,036.60
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	51,379.32	1,266.88
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	81,805.05	1,628.92
26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	171.18	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	188.79	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	321.36	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	174.60	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	251.06	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	125.53	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	409.73	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,646.98	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,590.76	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	562.38	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	465.99	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,176.73	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	3,980.97	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,467.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0395			Factory Modifications Addition <small>(26 29 13 13-0365)</small> Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA		Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0397	EA		Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0398	EA		Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0399	EA		Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0400			Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401			240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402			NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403	EA		Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,768.76	314.71
			<i>For Electronic Overloads, Add</i>	215.71	
26 29 13 13-0404	EA		Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,189.18	492.57
			<i>For Electronic Overloads, Add</i>	227.56	
26 29 13 13-0405	EA		Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,036.55	574.68
			<i>For Electronic Overloads, Add</i>	360.30	
26 29 13 13-0406	EA		Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,581.68	711.50
			<i>For Electronic Overloads, Add</i>	599.72	
26 29 13 13-0407	EA		Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,368.68	1,135.66
			<i>For Electronic Overloads, Add</i>	1,156.76	
26 29 13 13-0408	EA		Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	16,519.96	1,423.00
			<i>For Electronic Overloads, Add</i>	2,597.19	
26 29 13 13-0409			NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410	EA		Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,217.90	314.71
			<i>For Electronic Overloads, Add</i>	301.04	
26 29 13 13-0411	EA		Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,638.32	492.57
			<i>For Electronic Overloads, Add</i>	312.90	
26 29 13 13-0412	EA		Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,473.21	574.68
			<i>For Electronic Overloads, Add</i>	443.27	
26 29 13 13-0413	EA		Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,818.72	711.50
			<i>For Electronic Overloads, Add</i>	644.75	
26 29 13 13-0414	EA		Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	9,728.55	1,135.66
			<i>For Electronic Overloads, Add</i>	1,415.14	
26 29 13 13-0415	EA		Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	20,125.48	1,423.00
			<i>For Electronic Overloads, Add</i>	3,282.23	
26 29 13 13-0416			Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417	EA		Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	204.53	
26 29 13 13-0418	EA		H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	480.40	
26 29 13 13-0419	EA		Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	331.55	
26 29 13 13-0420			NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421	EA		Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,177.60	410.48
			<i>For Electronic Overloads, Add</i>	443.27	
26 29 13 13-0422	EA		Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,535.59	574.68
			<i>For Electronic Overloads, Add</i>	455.12	
26 29 13 13-0423	EA		Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,009.68	629.40
			<i>For Electronic Overloads, Add</i>	711.12	
26 29 13 13-0424	EA		Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	7,895.47	766.23
			<i>For Electronic Overloads, Add</i>	1,211.28	
26 29 13 13-0425	EA		Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	12,485.71	1,135.66
			<i>For Electronic Overloads, Add</i>	1,939.00	
26 29 13 13-0426	EA		Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	27,024.64	1,423.00
			<i>For Electronic Overloads, Add</i>	4,593.08	
26 29 13 13-0427			NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428	EA		Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,626.73	410.48
			<i>For Electronic Overloads, Add</i>	528.60	
26 29 13 13-0429	EA		Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,984.72	574.68
			<i>For Electronic Overloads, Add</i>	540.46	
26 29 13 13-0430	EA		Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,446.34	629.40
			<i>For Electronic Overloads, Add</i>	794.09	
26 29 13 13-0431	EA		Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,132.51	766.23
			<i>For Electronic Overloads, Add</i>	1,256.32	
26 29 13 13-0432	EA		Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	13,845.58	1,135.66
			<i>For Electronic Overloads, Add</i>	2,197.37	
26 29 13 13-0433	EA		Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	25,614.87	1,423.00
			<i>For Electronic Overloads, Add</i>	4,325.22	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	204.56	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	480.40	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	331.55	
26 29 13 13-0438 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,825.53	316.75
For Electronic Overloads, Add	226.49	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,249.07	495.72
For Electronic Overloads, Add	238.94	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,131.37	570.16
For Electronic Overloads, Add	378.32	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,739.49	712.60
For Electronic Overloads, Add	629.70	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,673.08	1,140.31
For Electronic Overloads, Add	1,214.60	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	17,203.41	1,425.19
For Electronic Overloads, Add	2,727.04	
26 29 13 13-0445 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,361.82	316.75
For Electronic Overloads, Add	328.39	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,787.91	495.72
For Electronic Overloads, Add	341.32	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,685.13	570.16
For Electronic Overloads, Add	483.53	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,126.97	712.60
For Electronic Overloads, Add	703.32	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,405.11	1,140.31
For Electronic Overloads, Add	1,543.69	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	21,694.70	1,425.19
For Electronic Overloads, Add	3,580.39	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	202.85	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	476.40	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	328.79	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,108.50	656.77
Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,562.25	875.69
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,118.24	1,204.08
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,049.68	1,641.93
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,587.14	2,298.69
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,197.53	410.48
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,583.73	574.68
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,679.83	629.40
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,518.66	766.23
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	10,654.65	1,135.66
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,434.50	410.48
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,836.70	574.68
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,975.95	629.40
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,110.97	766.23
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,455.64	1,135.66
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,335.33	422.39
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,730.77	570.16
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,925.59	633.51

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,925.91	760.21
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,507.62	1,140.31
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	2,596.44	422.39
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	3,009.49	570.16
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	4,251.89	633.51
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	5,476.70	760.21
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	12,390.18	1,140.31
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	5,003.33	875.69
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	5,416.18	1,094.61
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	7,748.01	1,423.00
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	12,221.57	1,860.84
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	22,078.98	2,517.62
26 29 13 13-0498 Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,719.74	246.29
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking	2,051.34	246.29
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect	977.33	
26 29 13 13-0504 Auxiliary Devices <small>(26 29 13 13)</small>		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact	531.83	136.83
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact	531.83	136.83
26 29 13 13-0507 EA Pilot Light Kit	557.89	136.83
26 29 23 Variable-Frequency Motor Controllers <small>(26 29)</small>		
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small>		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,278.40	516.39
For 6-Pulse Drive Package, Deduct	-685.03	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	2,557.42	564.38
For 6-Pulse Drive Package, Deduct	-788.63	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,958.71	620.58
For 6-Pulse Drive Package, Deduct	-944.66	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	3,095.63	596.51
For 6-Pulse Drive Package, Deduct	-1,046.44	
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive	3,323.00	650.36
For 6-Pulse Drive Package, Deduct	-1,112.25	
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive	3,572.32	650.36
For 6-Pulse Drive Package, Deduct	-1,249.38	
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,267.90	776.53
For 6-Pulse Drive Package, Deduct	-1,493.16	
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive	4,628.04	776.53
For 6-Pulse Drive Package, Deduct	-1,691.24	
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive	6,161.37	1,169.22
For 6-Pulse Drive Package, Deduct	-2,102.62	
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive	7,158.67	1,169.22
For 6-Pulse Drive Package, Deduct	-2,651.13	
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive	8,785.26	1,553.19
For 6-Pulse Drive Package, Deduct	-3,123.46	
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive	10,031.87	1,553.19
For 6-Pulse Drive Package, Deduct	-3,809.09	
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive	11,112.27	1,553.19
For 6-Pulse Drive Package, Deduct	-4,403.31	
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive	14,619.89	1,963.44
For 6-Pulse Drive Package, Deduct	-5,881.24	
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive	17,610.17	2,322.70
For 6-Pulse Drive Package, Deduct	-7,130.62	
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive	19,826.37	2,322.70
For 6-Pulse Drive Package, Deduct	-8,349.53	
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small>		
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive	5,293.32	929.11
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-1,889.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,459.53 -1,980.73	929.11
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,009.19 -2,087.38	1,107.04
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,036.89 -2,102.62	1,107.04
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,176.88 -2,651.13	1,678.32
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,564.71 -2,864.44	1,678.32
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	10,384.09 -3,275.82	2,214.08
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,769.21 -4,037.64	2,214.08
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,209.74 -4,829.93	2,214.08
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	17,259.75 -6,399.28	2,812.42
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	22,848.61 -8,898.04	3,335.18
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	24,178.33 -9,629.39	3,335.18
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	27,932.56 -11,274.92	3,716.42
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,373.09 -12,067.21	3,716.42
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	32,364.96 -13,712.74	3,716.42
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	37,448.72 -15,662.99	4,485.28
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	46,474.53 -20,406.99	4,685.46
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	54,456.25 -24,036.90	5,376.40
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	62,500.39 -27,961.19	5,830.87
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	72,244.49 -32,808.79	6,296.14
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	77,879.33 -35,323.40	6,827.49

END OF SECTION 26

26	26	Electrical
	26 20	Low-Voltage Electrical Distribution
	26 29	Low-Voltage Controllers



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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