

Spreadsheet Level	Takeoff Quantity	Total Cost/Unit	Total Amount
03 CONCRETE			
031000.00 Concrete Forming & Accessories			
031113.15 Column Formwork			
Column forms; square, job built; 36" x 36"; 4 uses	1,055.21 sf	15.08 /sf	15,916
Column Formwork			15,916
031113.35 Footing Formwork			
Footing forms, job built; continuous wall; 4 uses	1,170.00 sf	10.21 /sf	11,944
Footing forms, job built; column footing, spread; 4 uses	582.00 sf	12.03 /sf	6,999
Footing Formwork			18,944
031113.55 Slab/Mat Formwork			
Slab forms, job built; edge; 6" high; 4 uses	99.00 lf	9.58 /lf	948
Slab forms, job built; edge; 12" high; 4 uses	48.00 lf	10.21 /lf	490
Slab/Mat Formwork			1,438
031113.65 Wall Formwork			
Wall forms, job built; exterior; up to 8' high; 4 uses	5,850.00 sf	10.61 /sf	62,061
Wall Formwork			62,061
031113.90 Miscellaneous Formwork			
Keyway form (5 uses); 2' x 4"	585.00 lf	5.55 /lf	3,245
Chamfer strip; wood; 3/4" wide	444.64 lf	2.71 /lf	1,204
Miscellaneous Formwork			4,449
031516.00 Concrete Construction Joints			
Expansion joint, premolded, in slabs; polyethylene foam; 1/2" x 6"	550.00 lf	3.77 /lf	2,073
Concrete Construction Joints			2,073
031550.00 Miscellaneous Concrete Accessories			
Vapor barrier; 6 mil polyethylene	13,673.00 sf	0.33 /sf	4,472
Gravel porous fill, under floor slab, 3/4" stone	258.11 cy	145.79 /cy	37,630
Miscellaneous Concrete Accessories			42,102
Concrete Forming & Accessories			146,983
032000.00 Concrete Reinforcing			
032111.00 Plain Steel Reinforcement Bars			
Wall rebar; concrete; #3 - #4	0.86 ton	3,263.40 /ton	2,807
Column rebar; #3 - #4	0.27 ton	4,651.80 /ton	1,265
Column rebar; #5 - #6	0.38 ton	3,809.74 /ton	1,459
Footing rebar; grade 60; #3 - #4	1.24 ton	3,494.80 /ton	4,316
Footing rebar; grade 60; #5 - #6	0.99 ton	3,038.40 /ton	2,996
Slab rebar; #3 - #4	6.21 ton	3,494.80 /ton	21,696
Plain Steel Reinforcement Bars			34,539
032211.00 Plain Steel Welded Wire Fabric Reinforcing			
Slab wire mesh; standard; 6" x 6"; W1.4 x W1.4	3,125.00 sf	0.69 /sf	2,144
Plain Steel Welded Wire Fabric Reinforcing			2,144
Concrete Reinforcing			36,682
033000.00 Cast-in-Place Concrete			
033100.15 Column Concrete			
Column concrete; 2500 or 3000 psi; by pump	22.61 cy	269.12 /cy	6,086
Column Concrete			6,086
033100.20 Elevated Slab Concrete			
Elevated slab concrete; 2500 or 3000 psi; by pump	40.99 cy	199.59 /cy	8,182
Elevated Slab Concrete			8,182
033100.35 Footing Concrete			
Continuous footing concrete; 2500 or 3000 psi; by chute	28.89 cy	171.76 /cy	4,962
Spread footing concrete; 2500 or 3000 psi; under 5 cy; by chute	27.33 cy	171.76 /cy	4,695
Footing Concrete			9,656
033100.55 Slab/Mat Concrete			
Slab on grade concrete; 3500 or 4000 psi; by chute	259.89 cy	173.82 /cy	45,173
Slab/Mat Concrete			45,173
033100.65 Wall Concrete			
Wall concrete; 2500 or 3000 psi; to 4'; by chute	72.22 cy	167.22 /cy	12,077
Wall Concrete			12,077
033529.00 Tooled Concrete Finishing			

Spreadsheet Level	Takeoff Quantity	Total Cost/Unit	Total Amount
033529.00 Tooled Concrete Finishing			
Floor finish; screed	17,063.00 sf	1.19 /sf	20,319
Wall finish; break ties and patch holes	2,925.00 sf	1.91 /sf	5,573
Tooled Concrete Finishing			25,892
033923.00 Membrane Concrete Curing			
Concrete curing; sprayed membrane; slabs	17,063.00 sf	0.22 /sf	3,724
Membrane Concrete Curing			3,724
Cast-in-Place Concrete			110,790
036000.00 Grouting			
036213.00 Non-Metallic Non-Shrink Grouting			
Grouting for bases; non-shrink; non-metallic; 2" deep	126.33 sf	35.35 /sf	4,466
Non-Metallic Non-Shrink Grouting			4,466
Grouting			4,466
03 CONCRETE			298,921
05 METALS			
051000.00 Structural Metal Framing			
051223.00 Structural Steel for Buildings			
Structural steel; beams and girders, A-36; bolted	1.85 ton	4,203.52 /ton	7,768
Structural steel; tube; greater than 6" wide rectangular; heavy sections	1.41 ton	5,317.34 /ton	7,508
Structural Steel for Buildings			15,276
Structural Metal Framing			15,276
052000.00 Metal Joists			
052119.00 Open Web Steel Joist Framing			
Metal joist; K series	9.76 ton	2,834.25 /ton	27,668
Open Web Steel Joist Framing			27,668
Metal Joists			27,668
053000.00 Metal Decking			
053113.00 Steel Floor Decking			
Metal deck; open type, galvanized; 1 1/2" deep; 20 ga	3,125.00 sf	4.87 /sf	15,229
Steel Floor Decking			15,229
Metal Decking			15,229
055000.00 Metal Fabrications			
055113.00 Metal Pan Stairs			
Metal stair; pan type with cement fill, steel; per riser; tread; 4' wide	21.00 each	413.57 /each	8,685
Metal stair; pan type with cement fill, steel; per riser; landing	41.00 sf	130.55 /sf	5,353
Metal Pan Stairs			14,038
055213.00 Pipe & Tube Railings			
Railing, pipe; 1 1/2" dia, welded steel; 3-rail; galvanized	120.00 lf	81.55 /lf	9,786
Railing, pipe; 1 1/2" dia, welded steel; wall mounted, single rail; galvanized	35.00 lf	43.73 /lf	1,530
Pipe & Tube Railings			11,317
Metal Fabrications			25,354
05 METALS			83,527
06 WOOD, PLASTICS & COMPOSITES			
061000.00 Rough Carpentry			
061100.10 Blocking			
Blocking; steel construction; walls; 2" x 6"	72.00 lf	8.98 /lf	646
Blocking			646
Rough Carpentry			646
06 WOOD, PLASTICS & COMPOSITES			646
07 THERMAL & MOISTURE PROTECTION			
072000.00 Thermal Protection			
072113.00 Board Insulation			
Board insulation; polystyrene; wall; 2" thick, R8.33	2,475.00 sf	1.65 /sf	4,089
Board Insulation			4,089
072116.00 Blanket Insulation			
Batt insulation; wall, fiberglass; unfaced; 4" thick, R11	4,700.00 sf	1.39 /sf	6,543
Blanket Insulation			6,543
Thermal Protection			10,631
078000.00 Fire & Smoke Protection			

Spreadsheet Level	Takeoff Quantity	Total Cost/Unit	Total Amount
078116.00 Cementitious Fireproofing			
Fireproofing; sprayed on; 1" thick; on beams	387.27 sf	3.38 /sf	1,309
Fireproofing; sprayed on; 1" thick; on columns	120.89 sf	3.15 /sf	381
Fireproofing; sprayed on; 1" thick; on decks; fluted surface	3,125.00 sf	2.55 /sf	7,971
Cementitious Fireproofing			9,661
Fire & Smoke Protection			9,661
07 THERMAL & MOISTURE PROTECTION			20,293
08 OPENINGS			
081000.00 Doors & Frames			
081213.00 Hollow Metal Frames			
Hollow metal frame, stock; 16 ga; 6 3/4" x 1 3/4"; 3'-0" x 7'-0"	5.00 each	327.76 /each	1,639
Hollow metal frame, stock; 16 ga; 6 3/4" x 1 3/4"; 6'-0" x 7'-0"	1.00 each	435.35 /each	435
Hollow metal frame, stock; 16 ga; 4 3/4" x 1 3/4"; sidelight, complete; 1'-0" x 7'-2"	7.00 each	562.76 /each	3,939
Hollow metal frame, stock; 16 ga; 5 3/4" x 1 3/4"; 3'-0" x 7'-0"	13.00 each	317.76 /each	4,131
Hollow metal frame, stock; 16 ga; 5 3/4" x 1 3/4"; 6'-0" x 7'-0"	1.00 each	390.35 /each	390
Hollow Metal Frames			10,535
081313.00 Hollow Metal Doors			
Flush hollow metal door; heavy duty, unrated; 18 ga; 1 3/4" thick; 3'-0" x 7'-0"	7.00 each	606.39 /each	4,245
Hollow Metal Doors			4,245
081416.00 Flush Wood Doors			
Wood door; solid core; 1 3/4" thick; birch faced; 3'-0" x 7'-0"	15.00 each	400.94 /each	6,014
Flush Wood Doors			6,014
Doors & Frames			20,794
083000.00 Specialty Doors & Frames			
083326.00 Overhead Coiling Grilles			
Top coiling grille, manually operated, steel or aluminum; opening; 6' high x 16' wide	1.00 each	4,896.43 /each	4,896
Overhead Coiling Grilles			4,896
083613.00 Sectional Doors			
Sectional metal overhead door, complete; commercial grade; 12' x 12'	3.00 each	2,947.50 /each	8,843
Sectional Doors			8,843
Specialty Doors & Frames			13,739
085000.00 Windows			
085123.00 Steel Windows			
Steel window, primed; industrial; fixed sash	18.00 sf	59.82 /sf	1,077
Steel Windows			1,077
Windows			1,077
087000.00 Hardware			
087100.00 Door Hardware			
Hinges; 4" x 4" butts, steel, standard	33.00 pair	31.00 /pair	1,023
Latchset, heavy duty; cylindrical	1.00 each	255.47 /each	255
Latchset, heavy duty; mortise	1.00 each	299.75 /each	300
Lockset, heavy duty; cylindrical	14.00 each	370.47 /each	5,187
Mortise locks and latchsets, chrome; entry lockset	6.00 each	402.29 /each	2,414
Door closer; surface mounted, traditional type, parallel arm; heavy duty	7.00 each	415.94 /each	2,912
Door Hardware			12,090
Hardware			12,090
08 OPENINGS			47,699
09 FINISHES			
092000.00 Plaster & Gypsum Board			
092213.00 Metal Furring			
Metal framing; furring; on walls; 7/8" channel; 16" o.c.	1,987.50 sf	3.52 /sf	6,997
Metal Furring			6,997
092216.00 Non-Structural Metal Framing			
Metal framing; studs, non-load bearing, galvanized; 3 5/8"; 20 ga; 16" o.c.	4,700.00 sf	2.77 /sf	12,998
Non-Structural Metal Framing			12,998
092423.00 Cement Stucco			
Scratch coat; for ceramic tile	46.67 sy	13.07 /sy	610
Cement Stucco			610
092900.00 Gypsum Board			

Spreadsheet Level	Takeoff Quantity	Total Cost/Unit	Total Amount
092900.00 Gypsum Board			
Drywall; plasterboard; 5/8"; nailed or screwed to walls	10,937.50 sf	1.56 /sf	17,013
Drywall; add for fire resistant	10,487.50 sf	0.12 /sf	1,259
Drywall; add for water resistant	450.00 sf	0.19 /sf	86
Drywall; add for taping and finishing joints; average	10,937.50 sf	0.72 /sf	7,920
Gypsum Board			26,276
Plaster & Gypsum Board			46,881
093000.00 Tiling			
093013.00 Ceramic Tiling			
Tile; glazed ceramic wall; 4 1/4" x 4 1/4"; average	420.00 sf	12.05 /sf	5,061
Tile; glazed ceramic base; 4 1/4" high; average	105.00 lf	17.77 /lf	1,866
Tile; unglazed ceramic flooring; portland cement bed, cushion edge, face mounted; 2" x 2"	275.00 sf	17.85 /sf	4,909
Ceramic Tiling			11,836
Tiling			11,836
095000.00 Ceilings			
095113.00 Acoustical Panel Ceilings			
Acoustical panels; mineral fiber; 3/4" thick; 2' x 2'	2,920.00 sf	3.65 /sf	10,648
Acoustical Panel Ceilings			10,648
095323.00 Metal Acoustical Ceiling Suspension Assemblies			
Ceiling suspension system; T-bar; 2' x 2'	2,920.00 sf	2.56 /sf	7,487
Metal Acoustical Ceiling Suspension Assemblies			7,487
Ceilings			18,134
096000.00 Flooring			
096513.00 Resilient Base & Accessories			
Resilient wall base, vinyl; group 1; 4" high	690.00 lf	4.89 /lf	3,375
Resilient Base & Accessories			3,375
096519.00 Resilient Tile Flooring			
Resilient flooring; solid vinyl tile, 1/8" thick, 12" x 12"; solid colors	140.00 sf	9.37 /sf	1,312
Resilient Tile Flooring			1,312
096813.00 Tile Carpeting			
Carpet; tile; foam backed; average	2,560.00 sf	7.03 /sf	17,991
Tile Carpeting			17,991
Flooring			22,678
099000.00 Painting & Coating			
099123.00 Interior Painting			
Paint ceilings; spray; first coat; average	20.00 sf	0.38 /sf	8
Paint ceilings; spray; second coat; average	20.00 sf	0.33 /sf	7
Paint walls; spray; first coat; average	6,735.00 sf	0.31 /sf	2,063
Paint walls; spray; second coat; average	6,735.00 sf	0.29 /sf	1,954
Interior Painting			4,030
Painting & Coating			4,030
09 FINISHES			103,559
10 SPECIALTIES			
102000.00 Interior Specialties			
102113.13 Metal Toilet Compartments			
Toilet partition; metal; floor mounted	2.00 each	1,036.88 /each	2,074
Toilet partition; wheelchair accessible; painted metal; floor mounted	2.00 each	1,436.88 /each	2,874
Toilet partition; urinal screen; painted metal; floor mounted	2.00 each	555.94 /each	1,112
Metal Toilet Compartments			6,059
102813.00 Toilet Accessories			
Grab bar, wall mounted; 1 1/2" dia; stainless steel; 36" long	2.00 each	119.13 /each	238
Grab bar, wall mounted; 1 1/2" dia; stainless steel; 42" long	2.00 each	129.20 /each	258
Toilet Accessories			497
Interior Specialties			6,556
10 SPECIALTIES			6,556
13 SPECIAL CONSTRUCTION			
133000.00 Special Structures			
133419.00 Metal Building Systems			
Pre-engineered metal building; 100' x 150'; 25' eave height	14,060.00 sf	25.07 /sf	352,481

Spreadsheet Level	Takeoff Quantity	Total Cost/Unit	Total Amount
Metal Building Systems			352,481
Special Structures			352,481
13 SPECIAL CONSTRUCTION			352,481
21 FIRE SUPPRESSION			
210000.00 Fire Suppression - General			
210000.01 Fire Suppression - Subcontractors			
Fire Suppression Quote	17,500.00 gsf	4.00 /gsf	70,000
Fire Suppression - Subcontractors			70,000
Fire Suppression - General			70,000
21 FIRE SUPPRESSION			70,000
22 PLUMBING			
220000.00 Plumbing - General			
220000.01 Plumbing - Subcontractors			
Plumbing Quote	17,500.00 gsf	7.50 /gsf	131,250
Plumbing - Subcontractors			131,250
Plumbing - General			131,250
22 PLUMBING			131,250
23 HVAC			
230000.00 HVAC - General			
230000.01 HVAC - Subcontractors			
HVAC Quote	17,500.00 gsf	10.50 /gsf	183,750
HVAC - Subcontractors			183,750
HVAC - General			183,750
23 HVAC			183,750
26 ELECTRICAL			
260000.00 Electrical - General			
260000.01 Electrical - Subcontractors			
Electrical Power & Lighting Quote	17,500.00 gsf	12.00 /gsf	210,000
Electrical - Subcontractors			210,000
Electrical - General			210,000
26 ELECTRICAL			210,000

Estimate Totals

Description	Amount	Totals	Hours	Rate	Unit Cost	% of Total
Labor	681,581		5,090.1 hrs		38.95 /gsf	39.62%
Material	740,574				42.32 /gsf	43.05%
Subcontract						
Equipment	86,526		175.1 hrs		4.94 /gsf	5.03%
Other						
Trade Cost Subtotal	1,508,681	1,508,681			86.21 /gsf	87.69%
General Conditions	105,608			7.000 %	6.03 /gsf	6.14%
Construction Cost Subtotal	105,608	1,614,289			92.25 /gsf	93.83%
Fee	80,714			5.000 %	4.61 /gsf	4.69%
Insurance	25,425			1.500 %	1.45 /gsf	1.48%
Total		1,720,429			98.31 /gsf	