

# 05 12 Structural Steel Framing

## 05 12 23 – Structural Steel for Buildings

		Daily Crew	Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
<b>05 12 23.05 Canopy Framing</b>										
0010	<b>CANOPY FRAMING</b>									
0020	6" and 8" members, shop fabricated	G	E-4	3000	.011	Lb.	1.96	.67	.05	2.68 3.2

### 05 12 23.10 Ceiling Supports

0010	<b>CEILING SUPPORTS</b>									
1000	Entrance door/folding partition supports, shop fabricated	G	E-4	60	.533	L.F.	33	33.50	2.46	68.96 89.50
1100	Linear accelerator door supports	G		14	2.286		149	143	10.55	302.55 395
1200	Lintels or shelf angles, hung, exterior hot dipped galv.	G		267	.120		22.50	7.45	.55	30.50 36.50
1250	Two coats primer paint instead of galv.	G		267	.120		19.35	7.45	.55	27.35 33.50
1400	Monitor support, ceiling hung, expansion bolted	G		4	8	Ea.	520	500	37	1,057 1,375
1450	Hung from pre-set inserts	G		6	5.333		560	335	24.50	919.50 1,150
1600	Motor supports for overhead doors	G		4	8		264	500	37	801 1,100
1700	Partition support for heavy folding partitions, without pocket	G		24	1.333	L.F.	74.50	83	6.15	163.65 217
1750	Supports at pocket only	G		12	2.667		149	166	12.30	327.30 435
2000	Rolling grilles & fire door supports	G		34	.941		64	58.50	4.34	126.84 165
2100	Spider-leg light supports, expansion bolted to ceiling slab	G		8	4	Ea.	213	249	18.45	480.45 640
2150	Hung from pre-set inserts	G		12	2.667	"	229	166	12.30	407.30 520
2400	Toilet partition support	G		36	.889	L.F.	74.50	55.50	4.10	134.10 172
2500	X-ray travel gantry support	G		12	2.667	"	255	166	12.30	433.30 550

### 05 12 23.15 Columns, Lightweight

0010	<b>COLUMNS, LIGHTWEIGHT</b>									
1000	Lightweight units (lally), 3-1/2" diameter		E-2	780	.072	L.F.	7	4.40	3.18	14.58 17.90
1050	4" diameter		"	900	.062	"	7.05	3.81	2.76	13.62 16.60
5800	Adjustable jack post, 8' maximum height, 2-3/4" diameter	G				Ea.	72.50			72.50 79.50
5850	4" diameter	G				"	116			116 127

### 05 12 23.17 Columns, Structural

0010	<b>COLUMNS, STRUCTURAL</b>									
0015	Made from recycled materials									
0020	Shop fab'd for 100-ton, 1-2 story project, bolted connections									
0800	Steel, concrete filled, extra strong pipe, 3-1/2" diameter		E-2	660	.085	L.F.	54	5.20	3.76	62.96 71.50
0830	4" diameter			780	.072		60	4.40	3.18	67.58 76
0890	5" diameter			1020	.055		71.50	3.36	2.43	77.29 87
0930	6" diameter			1200	.047		95	2.86	2.07	99.93 112
0940	8" diameter			1100	.051		95	3.12	2.25	100.37 112
1100	For galvanizing, add					Lb.	33			33 36
1300	For web ties, angles, etc., add per added lb.			1 Sswk	945	.008	1.64	.52		2.16 2.60
1500	Steel pipe, extra strong, no concrete, 3" to 5" diameter	G	E-2	16000	.004		1.64	.21	.16	2.01 2.30
1600	6" to 12" diameter	G	E-2	14000	.004	Lb.	1.64	.24	.18	2.06 2.36
1700	Steel pipe, extra strong, no concrete, 3" diameter x 12'-0"	G		60	.933	Ea.	201	57	41.50	299.50 355
1750	4" diameter x 12'-0"	G		58	.966		294	59	43	396 460
1800	6" diameter x 12'-0"	G		54	1.037		560	63.50	46	669.50 765
1850	8" diameter x 14'-0"	G		50	1.120		995	68.50	49.50	1,113 1,250
1900	10" diameter x 16'-0"	G		48	1.167		1,425	71.50	51.50	1,548 1,750
1950	12" diameter x 18'-0"	G		45	1.244		1,925	76	55	2,056 2,300
3300	Structural tubing, square, A500GrB, 4" to 6" square, light section	G		11270	.005	Lb.	1.64	.30	.22	2.16 2.50
3600	Heavy section	G		32000	.002	"	1.64	.11	.08	1.83 2.05
4000	Concrete filled, add					L.F.	5.05			5.05 5.50
4500	Structural tubing, square, 4" x 4" x 1/4" x 12'-0"	G	E-2	58	.966	Ea.	270	59	43	372 435
4550	6" x 6" x 1/4" x 12'-0"	G		54	1.037		440	63.50	46	549.50 635
4600	8" x 8" x 3/8" x 14'-0"	G		50	1.120		960	68.50	49.50	1,078 1,200
4650	10" x 10" x 1/2" x 16'-0"	G		48	1.167		1,775	71.50	51.50	1,898 2,125
5100	Structural tubing, rect., 5" to 6" wide, light section	G		8000	.007	Lb.	1.64	.43	.31	2.38 2.79
5200	Heavy section	G		12000	.005		1.64	.29	.21	2.14 2.47