

05 12 Structural Steel Framing

05 12 23 – Structural Steel for Buildings

05 12 23.77 Structural Steel Projects			Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
								Labor	Equipment		
1400	Masonry bearing	G	E-5	10	8	Ton	3,275	495	263	4,033	4,650
1500	Industrial bldgs., 1 story, under 10 tons,										
1510	steel from warehouse, trucked	G	E-2	7.50	7.467	Ton	3,925	455	330	4,710	5,400
1600	1 story with roof trusses, steel bearing	G	E-5	10.60	7.547		3,875	465	248	4,588	5,225
1700	Masonry bearing	G	"	8.30	9.639		3,875	595	315	4,785	5,500
1900	Monumental structures, banks, stores, etc., simple connections	G	E-6	13	9.846		3,275	605	226	4,106	4,775
2000	Moment/composite connections	G	"	9	14.222		5,425	875	325	6,625	7,675
2200	Churches, simple connections	G	E-5	11.60	6.897		3,050	425	226	3,701	4,250
2300	Moment/composite connections	G	"	5.20	15.385		4,050	950	505	5,505	6,475
2800	Power stations, fossil fuels, simple connections	G	E-6	11	11.636		3,275	715	267	4,257	5,000
2900	Moment/composite connections	G		5.70	22.456		4,900	1,375	515	6,790	8,100
2950	Nuclear fuels, non-safety steel, simple connections	G		7	18.286		3,275	1,125	420	4,820	5,775
3000	Moment/composite connections	G		5.50	23.273		4,900	1,425	535	6,860	8,175
3040	Safety steel, simple connections	G		2.50	51.200		4,775	3,150	1,175	9,100	11,400
3070	Moment/composite connections	G		1.50	85.333		6,275	5,250	1,950	13,475	17,100
3100	Roof trusses, simple connections	G	E-5	13	6.154		4,575	380	202	5,157	5,850
3200	Moment/composite connections	G		8.30	9.639		5,575	595	315	6,485	7,375
3210	Schools, simple connections	G		14.50	5.517		3,275	340	181	3,796	4,325
3220	Moment/composite connections	G		8.30	9.639		4,775	595	315	5,685	6,500
3400	Welded construction, simple commercial bldgs., 1 to 2 stories	G	E-7	7.60	10.526		3,350	650	365	4,365	5,075
3500	7 to 15 stories	G	E-9	8.30	15.422		3,875	950	390	5,215	6,125
3700	Welded rigid frame, 1 story, simple connections	G	E-7	15.80	5.063		3,400	310	176	3,886	4,425
3800	Moment/composite connections	G	"	5.50	14.545		4,425	895	505	5,825	6,775
3900	High strength steel mill spec extras:										
3950	A529, A572 (50 ksi) and A36: same as A992 steel (no extra)										
4000	Add to A992 price for A572 (60, 65 ksi)	G				Ton	100			100	110
4300	Column base plates, light, up to 150 lb.	G	2 Sswk	2000	.008	Lb.	1.80	.49		2.29	2.7
4400	Heavy, over 150 lb.	G	E-2	7500	.007	"	1.88	.46	.33	2.67	3.1
4600	Castellated beams, light sections, to 50#/L.F., simple connections	G		10.70	5.234	Ton	3,450	320	232	4,002	4,525
4700	Moment/composite connections	G		7	8		3,775	490	355	4,620	5,300
4900	Heavy sections, over 50 plf, simple connections	G		11.70	4.786		3,600	293	212	4,105	4,625
5000	Moment/composite connections	G		7.80	7.179		3,925	440	320	4,685	5,350
5390	For projects 75 to 99 tons, add						10%				
5392	50 to 74 tons, add						20%				
5394	25 to 49 tons, add						30%	10%			
5396	10 to 24 tons, add						50%	25%			
5398	2 to 9 tons, add						75%	50%			
5399	Less than 2 tons, add						100%	100%			

05 12 23.78 Structural Steel Secondary Members

0010 STRUCTURAL STEEL SECONDARY MEMBERS											
0015	Made from recycled materials										
0020	Shop fabricated for 20-ton girt/purlin framing package, materials only										
0100	Girts/purlins, C/Z-shapes, includes clips and bolts										
0110	6" x 2-1/2" x 2-1/2", 16 ga., 3.0 lb./L.F.					L.F.	4.42			4.42	4.8
0115	14 ga., 3.5 lb./L.F.						5.15			5.15	5.6
0120	8" x 2-3/4" x 2-3/4", 16 ga., 3.4 lb./L.F.						5			5	5.5
0125	14 ga., 4.1 lb./L.F.						6.05			6.05	6.6
0130	12 ga., 5.6 lb./L.F.						8.25			8.25	9.1
0135	10" x 3-1/2" x 3-1/2", 14 ga., 4.7 lb./L.F.						6.90			6.90	7.6
0140	12 ga., 6.7 lb./L.F.						9.85			9.85	10.8
0145	12" x 3-1/2" x 3-1/2", 14 ga., 5.3 lb./L.F.						7.80			7.80	8.6
0150	12 ga., 7.4 lb./L.F.						10.90			10.90	12