

# 05 12 Structural Steel Framing

## 05 12 23 – Structural Steel for Buildings

### 05 12 23.45 Lintels

			Daily Crew	Output	Labor- Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
0010	<b>LINTELS</b>										
0015	Made from recycled materials										
0020	Plain steel angles, shop fabricated, under 500 lb.	<b>G</b>	1 Bric	550	.015	Lb.	1.26	.80		2.06	2.60
0100	500 to 1,000 lb.	<b>G</b>		640	.013		1.23	.69		1.92	2.39
0200	1,000 to 2,000 lb.	<b>G</b>		640	.013		1.19	.69		1.88	2.35
0300	2,000 to 4,000 lb.	<b>G</b>		640	.013		1.16	.69		1.85	2.32
0500	For built-up angles and plates, add to above	<b>G</b>					1.64			1.64	1.80
0700	For engineering, add to above						.16			.16	.18
0900	For galvanizing, add to above, under 500 lb.						.38			.38	.42
0950	500 to 2,000 lb.						.35			.35	.38
1000	Over 2,000 lb.						.33			.33	.36
2000	Steel angles, 3-1/2" x 3", 1/4" thick, 2'-6" long	<b>G</b>	1 Bric	47	.170	Ea.	17.70	9.40		27.10	33.50
2100	4'-6" long	<b>G</b>		26	.308		32	17		49	60.50
2600	4" x 3-1/2", 1/4" thick, 5'-0" long	<b>G</b>		21	.381		40.50	21		61.50	76
2700	9'-0" long	<b>G</b>		12	.667		73	37		110	136

### 05 12 23.60 Pipe Support Framing

0010	<b>PIPE SUPPORT FRAMING</b>										
0020	Under 10#/L.F., shop fabricated	<b>G</b>	E-4	3900	.008	Lb.	2.19	.51	.04	2.74	3.24
0200	10.1 to 15#/L.F.	<b>G</b>		4300	.007		2.16	.46	.03	2.65	3.13
0400	15.1 to 20#/L.F.	<b>G</b>		4800	.007		2.13	.42	.03	2.58	3.01
0600	Over 20#/L.F.	<b>G</b>		5400	.006		2.10	.37	.03	2.50	2.90

### 05 12 23.65 Plates

0010	<b>PLATES</b>										
0015	Made from recycled materials										
0020	For connections & stiffener plates, shop fabricated										
0050	1/8" thick (5.1 lb./S.F.)	<b>G</b>				S.F.	8.35			8.35	9.20
0100	1/4" thick (10.2 lb./S.F.)	<b>G</b>					16.70			16.70	18.35
0300	3/8" thick (15.3 lb./S.F.)	<b>G</b>					25			25	27.50
0400	1/2" thick (20.4 lb./S.F.)	<b>G</b>					33.50			33.50	36.50
0450	3/4" thick (30.6 lb./S.F.)	<b>G</b>					50			50	55
0500	1" thick (40.8 lb./S.F.)	<b>G</b>					67			67	73.50
2000	Steel plate, warehouse prices, no shop fabrication										
2100	1/4" thick (10.2 lb./S.F.)	<b>G</b>				S.F.	10.65			10.65	11.70
2210	1/4" steel plate, welded in place		E-18	528	.076		10.65	4.69	1.54	16.88	20.50
2220	1/2" steel plate, welded in place			480	.083		21.50	5.15	1.70	28.35	33.50
2230	3/4" steel plate, welded in place			384	.104		32	6.45	2.12	40.57	47
2240	1" steel plate, welded in place			320	.125		42.50	7.75	2.55	52.80	61.50
2250	1-1/2" steel plate, welded in place			256	.156		64	9.70	3.18	76.88	89
2260	2" steel plate, welded in place			192	.208		85.50	12.90	4.25	102.65	118

### 05 12 23.70 Stressed Skin Steel Roof and Ceiling System

0010	<b>STRESSED SKIN STEEL ROOF &amp; CEILING SYSTEM</b>										
0020	Double panel flat roof, spans to 100'	<b>G</b>	E-2	1150	.049	S.F.	13.10	2.98	2.16	18.24	21.50
0100	Double panel convex roof, spans to 200'	<b>G</b>		960	.058		21.50	3.57	2.58	27.65	32
0200	Double panel arched roof, spans to 300'	<b>G</b>		760	.074		32.50	4.51	3.26	40.27	46.50

### 05 12 23.75 Structural Steel Members

0010	<b>STRUCTURAL STEEL MEMBERS</b>										
0015	Made from recycled materials										
0020	Shop fab'd for 100-ton, 1-2 story project, bolted connections										
0100	Beam or girder, W 6 x 9	<b>G</b>	E-2	600	.093	L.F.	16.20	5.70	4.13	26.03	31
0120	x 15	<b>G</b>		600	.093		27	5.70	4.13	36.83	43
0140	x 20	<b>G</b>		600	.093		36	5.70	4.13	45.83	53