

Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source
Metals	5 Cold Formed Metal Joist Floor Framing								
	Joists - 2" Flange & Fasteners - 18 ga								
5	6" Deep	L.F.	2 Carpenters	1.73	3.88	0.15	110.00	5.61	R.S. Means
5	8" Deep	L.F.	2 Carpenters	2.06	4.74	0.18	90.00	6.80	R.S. Means
5	10" Deep	L.F.	2 Carpenters	2.42	5.35	0.20	80.00	7.77	R.S. Means
	Joists - 2" Flange & Fasteners - 16 ga								
5	6" Deep	L.F.	2 Carpenters	2.12	4.49	0.17	95.00	6.61	R.S. Means
5	8" Deep	L.F.	2 Carpenters	2.54	6.10	0.23	70.00	8.64	R.S. Means
5	10" Deep	L.F.	2 Carpenters	2.96	7.10	0.27	60.00	10.06	R.S. Means
	Joists - 2" Flange & Fasteners - 14 ga								
5	8" Deep	L.F.	2 Carpenters	3.20	6.55	0.25	65.00	9.75	R.S. Means
5	10" Deep	L.F.	2 Carpenters	3.70	9.50	0.36	45.00	13.20	R.S. Means
5	12" Deep	L.F.	2 Carpenters	4.21	12.20	0.46	35.00	16.41	R.S. Means
	Flat Strap Bracing - 20 ga x 2" wide								
5	12" O.C.	C.L.F.	1 Carpenter	60.00	45.50	1.71	4.67	105.50	R.S. Means
5	16" O.C.	C.L.F.	1 Carpenter	57.50	40.00	1.50	5.33	97.50	R.S. Means
5	24" O.C.	C.L.F.	1 Carpenter	55.50	32.00	1.20	6.66	87.50	R.S. Means
	Flat Strap Bracing - 18 ga x 2" wide								
5	12" O.C.	C.L.F.	1 Carpenter	78.50	53.50	2.00	4.00	132.00	R.S. Means
5	16" O.C.	C.L.F.	1 Carpenter	77.00	45.50	1.70	4.67	122.50	R.S. Means
5	24" O.C.	C.L.F.	1 Carpenter	75.50	40.00	1.50	5.33	115.50	R.S. Means
	Solid Bridging Between Joists - 18ga, 12" O.C.								
5	6" Wide	Ea	1 Carpenter	1.61	2.67	0.10	80.00	4.28	R.S. Means
5	8" Wide	Ea	1 Carpenter	2.03	2.84	0.12	75.00	4.87	R.S. Means
	Solid Bridging Between Joists - 16ga, 12" O.C.								
5	6" Wide	Ea	1 Carpenter	2.01	3.05	0.11	70.00	5.06	R.S. Means
5	8" Wide	Ea	1 Carpenter	2.56	3.28	0.12	65.00	5.84	R.S. Means
	Solid Bridging Between Joists - 18ga, 16" O.C.								
5	6" Wide	Ea	1 Carpenter	2.06	2.67	0.10	80.00	4.73	R.S. Means
5	8" Wide	Ea	1 Carpenter	2.61	2.84	0.11	75.00	5.45	R.S. Means
	Solid Bridging Between Joists - 16ga, 16" O.C.								
5	6" Wide	Ea	1 Carpenter	2.57	3.05	0.11	70.00	5.62	R.S. Means
5	8" Wide	Ea	1 Carpenter	3.28	3.28	0.12	65.00	6.56	R.S. Means
	Solid Bridging Between Joists - 18ga, 24" O.C.								
5	6" Wide	Ea	1 Carpenter	3.77	2.84	0.10	80.00	6.61	R.S. Means
5	8" Wide	Ea	1 Carpenter	4.65	3.05	0.11	75.00	7.70	R.S. Means
	Solid Bridging Between Joists - 16ga, 24" O.C.								
5	6" Wide	Ea	1 Carpenter	3.72	3.05	0.11	70.00	6.77	R.S. Means
5	8" Wide	Ea	1 Carpenter	4.75	3.28	0.12	65.00	8.03	R.S. Means
Metals	5 Cold Formed Metal Truss Roof Framing								
	18 ga x 4" Chords								
5	16' Span	Ea	2 Carpenters	65.50	35.50	1.33	12.00	101.00	R.S. Means
5	20' Span	Ea	2 Carpenters	82.00	39.00	1.46	11.00	121.00	R.S. Means
5	24' Span	Ea	2 Carpenters	98.50	39.00	1.46	11.00	137.50	R.S. Means
	18 ga x 6" Chords								
5	28' Span	Ea	2 Carpenters	144.00	47.50	1.78	9.00	191.50	R.S. Means
5	32' Span	Ea	2 Carpenters	165.00	47.50	1.78	9.00	212.50	R.S. Means
5	36' Span	Ea	2 Carpenters	185.00	53.50	2.00	8.00	238.50	R.S. Means
Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source

Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source
	Cold Formed Metal Truss Erection Only								
5	16' Span		F6		35.95	0.83	48.00	35.95	R.S. Means
5	20' Span		F6		37.65	0.87	46.00	37.65	R.S. Means
5	24' Span		F6		39.40	0.91	44.00	39.40	R.S. Means
5	28' Span		F6		41.25	0.95	42.00	41.25	R.S. Means
5	32' Span		F6		43.15	1.00	40.00	43.15	R.S. Means
5	36' Span		F6		45.50	1.01	38.00	45.50	R.S. Means
5	40' Span		F6		48.50	1.11	36.00	48.50	R.S. Means
	Crew	Qty.	Member	Bare Cost / HR	Including Subs / HR	Daily Cost	Source		
	1 Carpenter	1.00	1 Carpenter	26.65	45.20				
	Total		1 Member	26.65	45.20		R.S. Means		
	2 Carpenters	2.00	1 Carpenter	26.65	45.20		R.S. Means		
	Total		2 Members	53.30	90.40		R.S. Means		
	F6	2.00	1 Carpenter	26.65	45.20		R.S. Means		
		2.00	1 Building Laborer	19.65	33.35		R.S. Means		
		1.00	1 Crane Operator	28.25	46.55		R.S. Means		
		1.00	1 Hydraulic Crane			766.40	R.S. Means		
	Total		6 Members	120.85	203.65		R.S. Means		
				**Plus Equipment	**Plus Equipment				
Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source
5-metals	Structural Steel								
5-metals	Beams W6x9	L.F.		\$11.90	\$4.12	0.067	720	\$ 16.02	R.S. Means
5-metals	Beams W8x10	L.F.		\$31.20	\$4.12	0.067	720	\$ 35.32	R.S. Means
5-metals	Columns W6x15	L.F.		\$21.50	\$4.58	0.089	540	\$ 26.08	R.S. Means
5-metals	Columns W8x31	L.F.		\$44.50	\$4.58	0.089	540	\$ 49.08	R.S. Means
5-metals	Roof Decking								
5-metals	Open type, galv., 1-1/2" deep wide rib, 22 gauge, under 50 squares	S.F.		\$ 1.61	\$1.82	0.07	4500	\$ 3.43	R.S. Means
5-metals	20 gauge, under 50 squares	S.F.		\$ 1.89	\$2.13	0.08	3865	\$ 4.02	R.S. Means
5-metals	18 gauge, under 50 squares	S.F.		\$ 2.45	\$2.70	0.08	3800	\$ 5.15	R.S. Means
5-metals	16 gauge, under 50 squares	S.F.		\$ 3.30	\$3.55	0.09	3700	\$ 6.85	R.S. Means
5-metals	Steel Form Decking								
5-metals	Slab form, steel, 28 gauge, 9/16" deep, uncoated	S.F.		\$ 1.07	\$1.30	0.08	4000	\$ 2.37	R.S. Means
5-metals	".....", galvanized	S.F.		\$ 0.95	\$1.18	0.08	4000	\$ 2.13	R.S. Means
5-metals	24 gauge, 1" deep, uncoated	S.F.		\$ 1.17	\$1.41	0.08	3900	\$ 2.58	R.S. Means
5-metals	".....", galvanized	S.F.		\$ 1.38	\$1.62	0.08	3900	\$ 3.00	R.S. Means
5-metals	24 gauge, 1-5/16" deep, uncoated	S.F.		\$ 1.25	\$1.50	0.08	3800	\$ 2.75	R.S. Means
5-metals	".....", galvanized	S.F.		\$ 1.47	\$1.73	0.08	3800	\$ 3.20	R.S. Means
5-metals	22 gauge, 1-5/16" deep, uncoated	S.F.		\$ 1.57	\$1.83	0.09	3700	\$ 3.40	R.S. Means
5-metals	".....", galvanized	S.F.		\$ 1.60	\$1.85	0.09	3700	\$ 3.45	R.S. Means
5-metals	22 guage, 2" deep, uncoated	S.F.		\$ 2.05	\$2.31	0.09	3600	\$ 4.36	R.S. Means
5-metals	".....", galvanized	S.F.		\$ 2.01	\$2.27	0.09	3600	\$ 4.28	R.S. Means
5-metals	Ceiling Supports								
5-metals	Entrance door/folding partition supports, shop fabricated	L.F.		\$ 22.00	\$ 17.85	0.533	60	\$ 39.85	R.S. Means
5-metals	Linear accelerator door supports	L.F.		\$ 100.00	\$ 76.45	2.286	14	\$ 176.45	R.S. Means
5-metals	Lintels or shelf angles, hung, exterior hot dipped galv.	L.F.		\$ 15.00	\$ 4.01	0.12	267	\$ 19.01	R.S. Means
5-metals	Two coats primer paint instead of galv.	L.F.		\$ 13.00	\$ 4.01	0.12	4	\$ 17.01	R.S. Means
5-metals	Monitor support, ceiling hung, expansion bolted	Ea.		\$ 350.00	\$ 267.00	8	6	\$ 617.00	R.S. Means
Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source

Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source
5-metals	Hung from pre-set inserts	Ea.		\$ 375.00	\$ 178.00	5.333	4	\$ 553.00	R.S. Means
5-metals	Motor supports for overhead doors	Ea.		\$ 177.00	\$ 267.00	8	24	\$ 444.00	R.S. Means
5-metals	Partition support for heavy folding partitions, without pocket	L.F.		\$ 50.00	\$ 44.50	1.333	12	\$ 94.50	R.S. Means
5-metals	Supports at pocket only	L.F.		\$ 100.00	\$ 89.00	2.667	34	\$ 189.00	R.S. Means
5-metals	Rolling grilles & fire door supports	L.F.		\$ 43.00	\$ 31.49	0.941	8	\$ 74.49	R.S. Means
5-metals	Spider-leg light supports, expansion bolted to ceiling slab	Ea.		\$ 143.00	\$ 133.50	4	12	\$ 276.50	R.S. Means
5-metals	Hung from pre-set inserts	Ea.		\$ 154.00	\$ 89.00	2.667	36	\$ 243.00	R.S. Means
5-metals	Toilet partition support	L.F.		\$ 50.00	\$ 29.67	0.889	12	\$ 79.67	R.S. Means
5-metals	Columns, Lightweight								
5-metals	Lightweight units (lally), 3-1/2" diameter	L.F.		\$ 3.29	\$ 4.48	0.062	780	\$ 7.77	R.S. Means
5-metals	4" diameter	L.F.		\$ 4.85	\$ 3.29	0.053	900	\$ 8.14	R.S. Means
5-metals	Lally columns, to 8', 3-1/2" diameter	Ea.		\$ 26.50	\$ 17.75	0.667	24	\$ 44.25	R.S. Means
5-metals	4" diameter	Ea.		\$ 39.00	\$ 21.50	0.8	20	\$ 60.50	R.S. Means
5-metals	Columns, Structural								
5-metals	Shop fab'd for 100-ton, 1-2 story project, bolted construction								
5-metals	Steel, concrete filled, extra strong pipe, 3-1/2" diameter	L.F.		\$ 36.50	\$ 4.48	0.073	660	\$ 40.98	R.S. Means
5-metals	4" diameter	L.F.		\$ 40.50	\$ 3.80	0.062	780	\$ 44.30	R.S. Means
5-metals	5" diameter	L.F.		\$ 48.00	\$ 2.91	0.047	1020	\$ 50.91	R.S. Means
5-metals	6" diameter	L.F.		\$ 64.00	\$ 2.47	0.04	1200	\$ 66.47	R.S. Means
5-metals	8" diameter	L.F.		\$ 64.00	\$ 2.69	0.044	1100	\$ 66.69	R.S. Means
5-metals	For galvanizing, add	Lb.		\$ 0.26				\$ 0.26	R.S. Means
5-metals	For web ties, angles, etc., add per added lb.	Lb.		\$ 1.10	\$ 0.24	0.008	945	\$ 1.34	R.S. Means
5-metals	Steel pipe, extra strong, no concrete, 3" to 5" diameter	Lb.		\$ 1.10	\$ 0.19	0.003	16000	\$ 1.29	R.S. Means
5-metals	6" to 12" diameter	Lb.		\$ 1.10	\$ 0.21	0.003	14000	\$ 1.31	R.S. Means
5-metals	Structural Tubing, rect, 5" to 6" wide, light section	Lb.		\$ 1.10	\$ 0.26	0.004	11200	\$ 1.36	R.S. Means
5-metals	12" x 8" x 1/2" thk wall	Lb.		\$ 1.10	\$ 0.13	0.002	24000	\$ 1.23	R.S. Means
5-metals	Heavy section	Lb.		\$ 1.10	\$ 0.09	0.002	32000	\$ 1.19	R.S. Means
5-metals	Lintels								
5-metals	Plain steel angles, shop fabricated, under 500 lb	Lb.		\$ 0.85	\$ 0.40	0.015	550	\$ 1.25	R.S. Means
5-metals	500 to 1000 lb	Lb.		\$ 0.83	\$ 0.34	0.013	640	\$ 1.17	R.S. Means
5-metals	Steel angles, 3-1/2" x 3", 1/4" thk, 2'-6" long	Ea.		\$ 11.90	\$ 4.66	0.17	47	\$ 16.56	R.S. Means
5-metals	4'-6" long	Ea.		\$ 21.50	\$ 8.45	0.308	26	\$ 29.95	R.S. Means
5-metals	4" x 3-1/2", 1/4" thk, 5'-0" long	Ea.		\$ 27.50	\$ 10.45	0.381	21	\$ 37.95	R.S. Means
5-metals	9'-0" long	Ea.		\$ 49.00	\$ 18.25	0.667	12	\$ 67.25	R.S. Means
5-metals	Structural Metal Stud Framing								
5-metals	Bracing, shear wall x-bracing, per 10' x 10' bay, one face								
5-metals	Metal strap, 20 ga x 4" wide	Ea.		\$ 22.50	\$ 23.50	0.889	18	\$ 46.00	R.S. Means
5-metals	6" wide	Ea.		\$ 35.00	\$ 23.50	0.889	18	\$ 58.50	R.S. Means
5-metals	18 ga x 4" wide	Ea.		\$ 32.50	\$ 26.50	1	16	\$ 59.00	R.S. Means
5-metals	6" wide	Ea.		\$ 47.50	\$ 26.50	1	16	\$ 74.00	R.S. Means
5-metals	Continuous strap bracing, per horizontal row on both faces								
5-metals	Metal strap, 20 ga x 2" wide, studs 12" O.C.	C.L.F.		\$ 57.00	\$ 30.50	1.143	7	\$ 87.50	R.S. Means
5-metals	16" O.C.	C.L.F.		\$ 57.00	\$ 26.50	1	8	\$ 83.50	R.S. Means
5-metals	24" O.C.	C.L.F.		\$ 57.00	\$ 21.50	0.8	10	\$ 78.50	R.S. Means
5-metals	18 ga x 2" wide, studs 12" O.C.	C.L.F.		\$ 79.00	\$ 35.50	1.333	6	\$ 114.50	R.S. Means
5-metals	16" O.C.	C.L.F.		\$ 79.00	\$ 30.50	1.143	7	\$ 109.50	R.S. Means
5-metals	24" O.C.	C.L.F.		\$ 79.00	\$ 26.50	1	8	\$ 105.50	R.S. Means
5-metals	Bridging, solid between studs w/ 1-1/4" leg track, per stud bay								
5-metals	Studs 12" O.C., 18 ga x 2-1/2" wide	Ea.		\$ 0.97	\$ 1.71	0.064	125	\$ 2.68	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 1.16	\$ 1.78	0.067	120	\$ 2.94	R.S. Means
5-metals	4" wide	Ea.		\$ 1.24	\$ 1.78	0.067	120	\$ 3.02	R.S. Means
Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source

Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source
5-metals	6" wide	Ea.		\$ 1.61	\$ 1.85	0.07	115	\$ 3.46	R.S. Means
5-metals	8" wide	Ea.		\$ 2.03	\$ 1.94	0.073	110	\$ 3.97	R.S. Means
5-metals	16 ga x 2-1/2" wide	Ea.		\$ 1.21	\$ 1.85	0.07	115	\$ 3.06	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 1.47	\$ 1.94	0.073	110	\$ 3.41	R.S. Means
5-metals	4" wide	Ea.		\$ 1.57	\$ 1.94	0.073	110	\$ 3.51	R.S. Means
5-metals	6" wide	Ea.		\$ 2.01	\$ 2.03	0.076	105	\$ 4.04	R.S. Means
5-metals	8" wide	Ea.		\$ 2.56	\$ 2.13	0.08	100	\$ 4.69	R.S. Means
5-metals	Studs 16" O.C., 18 ga 2-1/2" wide	Ea.		\$ 1.24	\$ 1.71	0.064	125	\$ 2.95	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 1.49	\$ 1.78	0.067	120	\$ 3.27	R.S. Means
5-metals	4" wide	Ea.		\$ 1.58	\$ 1.78	0.067	120	\$ 3.36	R.S. Means
5-metals	6" wide	Ea.		\$ 2.06	\$ 1.85	0.07	115	\$ 3.91	R.S. Means
5-metals	8" wide	Ea.		\$ 2.61	\$ 1.94	0.073	110	\$ 4.55	R.S. Means
5-metals	16 ga x 2-1/2" wide	Ea.		\$ 1.55	\$ 1.85	0.07	115	\$ 3.40	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 1.88	\$ 1.94	0.073	110	\$ 3.82	R.S. Means
5-metals	4" wide	Ea.		\$ 2.01	\$ 1.94	0.073	110	\$ 3.95	R.S. Means
5-metals	6" wide	Ea.		\$ 2.57	\$ 2.03	0.076	105	\$ 4.60	R.S. Means
5-metals	8" wide	Ea.		\$ 3.28	\$ 2.13	0.08	100	\$ 5.41	R.S. Means
5-metals	Studs 24" O.C., 18 ga x 2-1/2" wide	Ea.		\$ 1.79	\$ 1.71	0.064	125	\$ 3.50	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 2.15	\$ 1.78	0.067	120	\$ 3.93	R.S. Means
5-metals	4" wide	Ea.		\$ 2.29	\$ 1.78	0.067	120	\$ 4.07	R.S. Means
5-metals	6" wide	Ea.		\$ 2.98	\$ 1.85	0.07	115	\$ 4.83	R.S. Means
5-metals	8" wide	Ea.		\$ 3.77	\$ 1.94	0.073	110	\$ 5.71	R.S. Means
5-metals	16 ga x 2-1/2" wide	Ea.		\$ 2.24	\$ 1.85	0.07	115	\$ 4.09	R.S. Means
5-metals	3-5/8" wide	Ea.		\$ 2.72	\$ 1.94	0.073	110	\$ 4.66	R.S. Means
5-metals	4" wide	Ea.		\$ 2.91	\$ 1.94	0.073	110	\$ 4.85	R.S. Means
5-metals	6" wide	Ea.		\$ 3.72	\$ 2.03	0.076	105	\$ 5.75	R.S. Means
5-metals	8" wide	Ea.		\$ 4.75	\$ 2.13	0.08	100	\$ 6.88	R.S. Means
5-metals	Continuous bridging, per row								
5-metals	16 ga x 1-1/2" channel thru studs 12" O.C.	C.L.F.		\$ 35.50	\$ 35.50	1.333	6	\$ 71.00	R.S. Means
5-metals	16" O.C.	C.L.F.		\$ 30.50	\$ 30.50	1.143	7	\$ 61.00	R.S. Means
5-metals	24" O.C.	C.L.F.		\$ 24.00	\$ 24.00	0.909	8.8	\$ 48.00	R.S. Means
5-metals	2" x 2" angle, 18 ga, studs 12" O.C.	C.L.F.		\$ 30.50	\$ 30.50	1.143	7	\$ 61.00	R.S. Means
Division	Description	Unit	Crew	Material	Labor+Equip	Time	Daily Output	Unit Cost	Source