

05 05 Common Work Results for Metals

05 05 23 – Metal Fastenings

05 05 23.25 High Strength Bolts		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
1365	3" long	G	1 Swwk	110	.073	Ea.	5.05	4.50	9.55	12.50
1370	4" long	G		105	.076		5.85	4.71	10.56	13.70
1380	6" long	G		100	.080		7.50	4.95	12.45	15.85
1390	8" long	G		90	.089		10.10	5.50	15.60	19.60
1400	1" diameter x 2" long	G		105	.076		6.05	4.71	10.76	13.95
1420	3" long	G		100	.080		6.90	4.95	11.85	15.15
1450	4" long	G		95	.084		7.60	5.20	12.80	16.35
1500	6" long	G		90	.089		9.40	5.50	14.90	18.80
1550	8" long	G		85	.094		13.55	5.80	19.35	24
1600	1-1/4" diameter x 3" long	G		85	.094		11.60	5.80	17.40	22
1650	4" long	G		80	.100		12.80	6.20	19	23.50
1700	6" long	G		75	.107		16.25	6.60	22.85	28
1750	8" long	G		70	.114		20	7.05	27.05	33

05 05 23.30 Lag Screws

0010 LAG SCREWS										
0020	Steel, 1/4" diameter, 2" long	G	1 Carp	200	.040	Ea.	.14	2.25	2.39	3.50
0100	3/8" diameter, 3" long	G		150	.053		.50	3	3.50	5
0200	1/2" diameter, 3" long	G		130	.062		1.22	3.46	4.68	6.50
0300	5/8" diameter, 3" long	G		120	.067		1.80	3.75	5.55	7.60

05 05 23.35 Machine Screws

0010 MACHINE SCREWS										
0020	Steel, round head, #8 x 1" long	G	1 Carp	4.80	1.667	C	4.57	94	98.57	145
0110	#8 x 2" long	G		2.40	3.333		10	188	198	290
0200	#10 x 1" long	G		4	2		5.05	113	118.05	174
0300	#10 x 2" long	G		2	4		11.50	225	236.50	350

05 05 23.50 Powder Actuated Tools and Fasteners

0010 POWDER ACTUATED TOOLS & FASTENERS										
0020	Stud driver, .22 caliber, single shot					Ea.	90		90	99
0100	.27 caliber, semi automatic, strip					Ea.	630		630	690
0300	Powder load, single shot, .22 cal, power level 2, brown					C	8.25		8.25	9.10
0400	Strip, .27 cal, power level 4, red						12.75		12.75	14.05
0600	Drive pin, .300 x 3/4" long	G	1 Carp	4.80	1.667		6.40	94	100.40	147
0700	.300 x 3" long with washer	G	"	4	2		17.95	113	130.95	188

05 05 23.55 Rivets

0010 RIVETS										
0100	Aluminum rivet & mandrel, 1/2" grip length x 1/8" diameter	G	1 Carp	4.80	1.667	C	3.65	94	97.65	144
0200	3/16" diameter	G		4	2		6.05	113	119.05	175
0300	Aluminum rivet, steel mandrel, 1/8" diameter	G		4.80	1.667		2.15	94	96.15	142
0400	3/16" diameter	G		4	2		3.97	113	116.97	172
0500	Copper rivet, steel mandrel, 1/8" diameter	G		4.80	1.667		7.10	94	101.10	148
0800	Stainless rivet & mandrel, 1/8" diameter	G		4.80	1.667		13.70	94	107.70	155
0900	3/16" diameter	G		4	2		24	113	137	195
1000	Stainless rivet, steel mandrel, 1/8" diameter	G		4.80	1.667		5.75	94	99.75	146
1100	3/16" diameter	G		4	2		11.90	113	124.90	181
1200	Steel rivet and mandrel, 1/8" diameter	G		4.80	1.667		3.43	94	97.43	144
1300	3/16" diameter	G		4	2		5.70	113	118.70	174
1400	Hand riveting tool, standard					Ea.	25.50		25.50	28
1500	Deluxe						405		405	445
1600	Power riveting tool, standard						515		515	570
1700	Deluxe						1,500		1,500	1,650