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QUALITY with a PERSONAL TOUCH
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





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










SULPHUR, LA
PH: (337) 625-2300 • (800) 737-5643
FAX: (337) 625-8509
Corporate Office
Sales

NEW IBERIA, LA
PH: (337) 365-2441 (800) 252-9017
FAX: (337) 365-4848

BEAUMONT, TX
PH : (409) 840-4800 • (800) 563-6577
FAX: (409) 840-5151

HOUMA, LA
PH: (985) 274-0110 (866) 733-8706
FAX: (985) 274-0115

 STANDARD BEAMS _____ 1	 PLATES _____ 18
 WIDE FLANGE _____ 2	 FLOOR PLATE _____ 19
 STANDARD CHANNELS _____ 6	 FLOOR SHEET _____ 19
 MISCELLANEOUS CHANNELS _____ 7	 ROUND TUBING _____ 20
 ANGLES _____ 8	 SQUARE AND RECTANGULAR TUBING _____ 24
 STRUCTURAL ROLLED T-BAR _____ 10	 RECTANGULAR HOLLOW STRUCTURAL TUBING _____ 27
 BAR CHANNELS _____ 10	 PIPE _____ 30
 FLAT BAR _____ 11	 BAR GRATING STEEL TYPE 19W4 _____ 35
 SQUARE BARS _____ 14	 BAR GRATING STAIR TREADS CHECKER PLATE NOSING _____ 35
 ROUND BARS _____ 14	 STANDARD EXPANDED METAL (RAISED) _____ 36
 REINFORCING BAR _____ 16	 FLATTENED EXPANDED METAL _____ 37
 HEXAGON BAR _____ 16	 EXPANDED METAL GRATING _____ 38
 COATED SHEETS _____ 17	STAINLESS STEEL _____ 39
 HOT ROLLED SHEETS (COILS) _____ 17	ALUMINUM _____ 42

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NOTES

MISSION STATEMENT


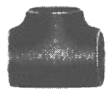


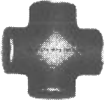










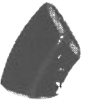





A COMPANY WIDE COMMITMENT AND APPLICATION OF THE TOTAL QUALITY PHILOSOPHY TO CONFORM TO THE REQUIREMENTS OF OUR CUSTOMERS, BOTH INTERNAL AND EXTERNAL, IN A SAFE AND MUTUALLY PROFITABLE LONG TERM RELATIONSHIP.

DISCLAIMER

This book should be used for weight estimation purposes only. The weights herein are generally accepted within the service center industry. The items listed within do not necessarily represent Superior Supply and Steel's complete inventory. For a complete inventory listing and other product information, please contact your Superior Supply and Steel salesperson.

PICTORIAL PRODUCT INDEX

Trinity Industries Fittings and Flange Group

 90° ELBOWS Long Radius	 TEES Straight and reducing	 SADDLES
 90° ELBOWS Long Tangent One End	 CROSSES Straight and reducing	 BLIND FLANGES
 90° REDUCING ELBOWS Long Radius	 CONCENTRIC REDUCERS	 LAP FLANGES
 3R ELBOWS 45° and 90°	 ECCENTRIC REDUCERS	 THREADED FLANGES
 90° ELBOWS Short Radius	 CAPS	 SLIP-ON FLANGES
 45° ELBOWS Long Radius	 LAP JOINT STUB ENDS	 SOCKET FLANGES
 180° RETURNS Long and Short Radius	 FULL ENCIRCLEMENT SADDLES	 WELDNECK FLANGES

METRIC CONVERSION TABLE KILOGRAMS TO POUNDS

Kilo-grams	Pounds	Kilo-grams	Pounds
1	2.2046	51	112.436
2	4.4092	52	114.640
3	6.6139	53	116.845
4	8.8185	54	119.050
5	11.0231	55	121.254
6	13.2277	56	123.459
7	15.4324	57	125.663
8	17.6370	58	127.868
9	19.8416	59	130.073
10	22.0462	60	132.277
11	24.2508	61	134.482
12	26.4555	62	136.687
13	28.6601	63	138.891
14	30.8647	64	141.096
15	33.0693	65	143.300
16	35.2740	66	145.505
17	37.4786	67	147.710
18	39.6832	68	149.914
19	41.8878	69	152.119
20	44.0924	70	154.324
21	46.2971	71	156.528
22	48.5017	72	158.733
23	50.7063	73	160.937
24	52.9109	74	163.142
25	55.1156	75	165.347
26	57.3202	76	167.551
27	59.5248	77	169.756
28	61.7294	78	171.961
29	63.9340	79	174.165
30	66.1387	80	176.370
31	68.3433	81	178.574
32	70.5479	82	180.745
33	72.7525	83	182.984
34	74.9572	84	185.188
35	77.1618	85	187.393
36	79.3664	86	189.598
37	81.5710	87	191.802
38	83.7756	88	194.007
39	85.9803	89	196.211
40	88.1849	90	198.416
41	90.390	91	200.621
42	92.594	92	202.825
43	94.799	93	205.030
44	97.003	94	207.234
45	99.208	95	209.439
46	101.413	96	211.644
47	103.617	97	213.848
48	105.822	98	216.053
49	108.026	99	218.258
50	110.231	100	220.462

METRIC CONVERSION TABLE

POUNDS TO KILOGRAMS

Pounds	Kilo grams	Pounds	Kilo grams
1	0.436	51	23.1332
2	0.9072	52	23.5868
3	1.3608	53	24.0404
4	1.8144	54	24.4940
5	2.2680	55	24.9876
6	2.7216	56	25.4012
7	3.1751	57	25.8549
8	3.6287	58	26.3084
9	4.0823	59	26.7620
10	4.5459	60	27.2156
11	4.9895	61	27.6691
12	5.4431	62	28.1227
13	5.8967	63	28.5763
14	6.3503	64	29.0299
15	6.8039	65	29.4835
16	7.2575	66	29.9371
17	7.7111	67	30.3907
18	8.1647	68	30.8443
19	8.6183	69	31.2979
20	9.0718	70	31.7515
21	9.5254	71	32.2051
22	9.9790	72	32.6587
23	10.4326	73	33.1122
24	10.8862	74	33.5658
25	11.3398	75	34.0194
26	11.7934	76	34.4730
27	12.2470	77	34.9266
28	12.7006	78	35.3802
29	13.1542	79	35.8338
30	13.6078	80	36.2874
31	14.0614	81	36.7410
32	14.5150	82	37.1946
33	14.9686	83	37.6482
34	15.4221	84	38.1018
35	15.8757	85	38.5554
36	16.3293	86	39.0089
37	16.7920	87	39.4625
38	17.2365	88	39.9161
39	17.6901	89	40.3697
40	18.1437	90	40.8233
41	18.5973	91	41.2769
42	19.0509	92	41.7305
43	19.5045	93	42.1841
44	19.9581	94	42.6377
45	20.1117	95	43.0913
46	20.8653	96	43.5449
47	21.3188	97	43.9985
48	21.7724	98	44.4521
49	22.2260	99	44.9057
50	22.6796	100	45.3592

SUPERIOR SERVICES

◆ PLATES

- ◆ DOMESTIC AND FOREIGN
- ◆ A-36 (ABS) (ABSA)
- ◆ A-572 GR50
- ◆ ASME SA 516-70 (As Rolled and Normalized)
- ◆ A 514 (T-1)
- ◆ ABS GR EH-36

◆ SURFACE PREPARATION

- ◆ AUTOMATED SYSTEM UTILIZING STEELSHOT/GRIT
- ◆ ENVIRONMENTALLY SAFE
- ◆ CAPACITY
 - ◆ PIPE (ALL LENGTHS)
 - ◆ WIDE PLATE (ALL LENGTHS & THICKNESS)
 - ◆ STRUCTURAL STEEL / FITTINGS

◆ COATING - PER CUSTOMER SPECIFICATIONS

◆ PIPE - SEAMLESS AND WELDED

◆ STRUCTURAL STEEL

◆ SHEETS - HOT ROLLED / GALVANIZED

◆ FITTINGS

◆ VICTAULIC FITTINGS

◆ COLD FINISHED BARS

◆ ALLOYS

◆ ALUMINUM

◆ STAINLESS

◆ GALVANIZED

◆ PROCESSING

- ◆ CNC HD 400 Plasma Cutting
- ◆ CNC Flame Cutting
- ◆ Saw Cutting
- ◆ 100+ ft Cutting Table

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Kilo grams per sq. mm.	Lbs per sq. in.	Kilo grams per sq. mm.	Lbs per sq. in.
1	1.422	51	72.539
2	2.845	52	73.962
3	4.267	53	75.384
4	5.689	54	76.806
5	7.112	55	78.229
6	8.534	56	79.651
7	9.956	57	81.073
8	11.379	58	82.496
9	12.801	59	83.918
10	14.223	60	85.340
11	15.646	61	86.763
12	17.068	62	88.185
13	18.490	63	89.607
14	19.913	64	91.030
15	21.335	65	92.452
16	22.757	66	93.874
17	24.180	67	95.297
18	25.602	68	96.719
19	27.024	69	98.141
20	28.447	70	99.564
21	29.869	71	100.986
22	31.291	72	102.408
23	32.714	73	103.831
24	34.136	74	105.253
25	35.558	75	106.675
26	36.981	76	108.098
27	38.403	77	109.520
28	39.826	78	110.943
29	41.248	79	112.365
30	42.670	80	113.787
31	44.093	81	115.210
32	45.515	82	116.632
33	46.937	83	118.054
34	48.360	84	119.477
35	49.782	85	120.899
36	51.204	86	122.321
37	52.627	87	123.744
38	54.049	88	125.166
39	55.471	89	126.588
40	56.894	90	128.011
41	58.316	91	129.433
42	59.738	92	130.855
43	61.161	93	132.278
44	62.583	94	133.700
45	64.005	95	135.122
46	65.428	96	136.545
47	66.850	97	137.969
48	68.272	98	139.389
49	69.695	99	140.812
50	71.117	100	142.234

METRIC CONVERSION TABLE

POUNDS PER SQUARE INCH TO KILOGRAMS PER SQUARE MILLIMETER

Lbs. per sq. in.	Kilo-grams per sq. mm.	Lbs. per sq. in.	Kilo-grams per sq. mm.	Lbs. per sq. in.	Kilo-grams per sq. mm.
100	0.0703	29.000	20.3889	65.000	45.6993
200	0.1406	30.000	21.0920	66.000	46.4024
300	0.2109	31.000	21.7951	67.000	47.1055
400	0.2812	32.000	22.4981	68.000	47.8085
500	0.3515	33.000	23.2012	69.000	48.5116
600	0.4218	34.000	23.9043	70.000	49.2147
700	0.4921	35.000	24.6073	71.000	49.9177
800	0.5625	36.000	25.3104	72.000	50.6208
900	0.6328	37.000	26.0135	73.000	51.3239
1,000	0.7031	38.000	26.7165	74.000	52.0269
2,000	1.4061	39.000	27.4196	75.000	52.7300
3,000	2.1092	40.000	28.1227	76.000	53.4331
4,000	2.8123	41.000	28.8257	77.000	54.1361
5,000	3.5153	42.000	29.5288	78.000	54.8392
6,000	4.2184	43.000	30.2319	79.000	55.5423
7,000	4.9215	44.000	30.9349	80.000	56.2453
8,000	5.6246	45.000	31.6380	81.000	56.9484
9,000	6.3276	46.000	32.3411	82.000	57.6515
10,000	7.0307	47.000	33.0441	83.000	58.3545
11,000	7.7338	48.000	33.7472	84.000	59.0576
12,000	8.4368	49.000	34.4503	85.000	59.7607
13,000	9.1399	50.000	35.1533	86.000	60.4637
14,000	9.8429	51.000	35.8564	87.000	61.1668
15,000	10.5460	52.000	36.5595	88.000	61.8699
16,000	11.2491	53.000	37.2625	89.000	62.5729
17,000	11.9521	54.000	37.9656	90.000	63.2760
18,000	12.6552	55.000	38.6687	91.000	63.9791
19,000	13.3583	56.000	39.3717	92.000	64.6822
20,000	14.0613	57.000	40.0748	93.000	65.3852
21,000	14.7644	58.000	40.7779	94.000	66.0883
22,000	15.4675	59.000	41.4809	95.000	66.7914
23,000	16.1705	60.000	42.1840	96.000	67.4944
24,000	16.8736	61.000	42.8871	97.000	68.1975
25,000	17.5767	62.000	43.5901	98.000	68.9006
26,000	18.2797	63.000	44.2932	99.000	69.6036
27,000	18.9828	64.000	44.9963	100.000	70.3067
28,000	19.6859				

STANDARD BEAMS

ASTM A-36

STOCK LENGTHS:

3" thru 12": 20', 40' and 60'

Sizes over 12": 20', 40', and 60', 20'-60' w/ 5' incremental lengths available

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
3S	5.70	3.00	2.330	.260	.170
	7.50	3.00	2.509	.260	.349
4S	7.70	4.00	2.663	.293	.193
	9.50	4.00	2.796	.293	.326
5S	10.00	5.00	3.004	.326	.214
6S	12.50	6.00	3.332	.359	.232
	17.25	6.00	3.565	.359	.465
7S	15.30	7.00	3.662	.392	.252
8S	18.40	8.00	4.001	.425	.271
	23.00	8.00	4.171	.425	.441
10S	25.40	10.00	4.661	.491	.311
	35.00	10.00	4.944	.491	.594
12S	31.80	12.00	5.000	.544	.350
	35.00	12.00	5.078	.544	.428
15S	40.80	12.00	5.252	.659	.462
	50.00	12.00	5.477	.659	.687
	42.90	15.00	5.501	.622	.411
18S	50.00	15.00	5.640	.622	.550
	54.70	18.00	6.001	.691	.461
20S	70.00	18.00	6.251	.691	.711
	66.00	20.00	6.255	.795	.505
24S	75.00	20.00	6.385	.795	.635
	86.00	20.30	7.060	.920	.660
	96.00	20.30	7.200	.920	.800
	80.00	24.00	7.000	.870	.500
	106.00	24.50	7.870	1.090	.620
	121.00	24.50	8.050	1.090	.800

WIDE FLANGE

ASTM A-36

STOCK LENGTHS:

4" thru 12": 20', 40' and 60'

Sizes over 12": 20', 40', and 60', 20'-60' w/ 5' incremental lengths available

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web
			Width Inches	Thickness Inches	Thickness Inches
4W	13.0	4.16	4.060	.345	.280
4M	13.0	4.00	3.940	.371	.254
5W	16.0	5.01	5.000	.360	.240
	19.0	5.15	5.030	.430	.270
6W	9.0	5.90	3.940	.215	.170
	12.0	6.03	4.000	.280	.230
	15.0	5.99	5.990	.260	.230
	16.0	6.28	4.030	.405	.260
	20.0	6.20	6.020	.365	.260
	25.0	6.38	6.080	.455	.320
6M	4.4	6.00	1.844	.188	.125
8W	10.0	7.89	3.940	.205	.170
	13.0	7.99	4.000	.255	.230
	15.0	8.11	4.015	.315	.245
	18.0	8.14	5.250	.330	.230
	21.0	8.28	5.270	.400	.250
	24.0	7.93	6.495	.400	.245
	28.0	8.06	6.535	.465	.285
	31.0	8.00	7.995	.435	.285
	35.0	8.12	8.020	.495	.310
	40.0	8.25	8.070	.560	.360
	48.0	8.50	8.110	.685	.400
	58.0	8.75	8.220	.810	.510
	67.0	9.00	8.280	.935	.570
8M	6.5	8.00	2.250	.188	.125
10W	12.0	9.87	3.960	.210	.190
	15.0	9.99	4.000	.270	.230
	17.0	10.11	4.010	.330	.240
	19.0	10.24	4.020	.395	.250
	22.0	10.17	5.750	.360	.240
	26.0	10.33	5.770	.440	.260
	30.0	10.47	5.810	.510	.300
	33.0	9.73	7.960	.435	.290
10W	39.0	9.92	7.985	.530	.315
	45.0	10.10	8.020	.620	.350
	49.0	9.98	10.000	.560	.340
	54.0	10.09	10.030	.615	.370
	60.0	10.22	10.080	.680	.420
	68.0	10.40	10.130	.770	.420
	77.0	10.60	10.190	.870	.530
	88.0	10.84	10.265	.990	.605
	100.0	11.10	10.340	1.120	.680
	112.0	11.36	10.415	1.250	.755
10M	9.0	10.00	2.750	.188	.188
12W	14.0	11.91	3.970	.225	.200
	16.0	11.99	3.990	.265	.220

METRIC CONVERSION TABLE

INCH (HUNDREDTHS) TO MILLIMETERS

Inch	Milli-meters	Inch	Milli-meters
.01	0.254	.51	12.954
.02	0.508	.52	13.208
.03	0.762	.53	13.462
.04	1.016	.54	13.716
.05	1.270	.55	13.970
.06	1.524	.56	14.224
.07	1.778	.57	14.478
.08	2.032	.58	14.732
.09	2.286	.59	14.986
.10	2.540	.60	15.240
.11	2.794	.61	15.494
.12	3.048	.62	15.748
.13	3.302	.63	16.002
.14	3.556	.64	16.256
.15	3.810	.65	16.510
.16	4.064	.66	16.764
.17	4.318	.67	17.018
.18	4.572	.68	17.272
.19	4.826	.69	17.526
.20	5.080	.70	17.780
.21	5.334	.71	18.034
.22	5.588	.72	18.288
.23	5.842	.73	18.542
.24	6.096	.74	18.796
.25	6.350	.75	19.050
.26	6.604	.76	19.304
.27	6.858	.77	19.558
.28	7.112	.78	19.812
.29	7.366	.79	20.066
.30	7.620	.80	20.320
.31	7.874	.81	20.574
.32	8.128	.82	20.828
.33	8.382	.83	21.082
.34	8.636	.84	21.336
.35	8.890	.85	21.590
.36	9.144	.86	21.844
.37	9.398	.87	22.098
.38	9.652	.88	22.352
.39	9.906	.89	22.606
.40	10.160	.90	22.860
.41	10.414	.91	23.114
.42	10.668	.92	23.368
.43	10.922	.93	23.622
.44	11.176	.94	23.876
.45	11.430	.95	24.130
.46	11.684	.96	24.384
.47	11.938	.97	24.638
.48	12.192	.98	24.892
.49	12.446	.99	25.146
.50	12.700	1.00	25.400

METRIC CONVERSION TABLE

MILLIMETERS TO DECIMALS OF AN INCH

MM	Inches	MM	Inches
1	0.03937	51	2.00787
2	0.07874	52	2.04721
3	0.11811	53	2.08661
4	0.15748	54	2.12598
5	0.19685	55	2.16535
6	0.23622	56	2.20472
7	0.27559	57	2.24400
8	0.31496	58	2.28346
9	0.35433	59	2.32283
10	0.39370	60	2.36220
11	0.43307	61	2.40157
12	0.47244	62	2.44094
13	0.51181	63	2.48031
14	0.55118	64	2.51968
15	0.59055	65	2.55905
16	0.62992	66	2.59842
17	0.66929	67	2.63779
18	0.70866	68	2.67716
19	0.74803	69	2.71653
20	0.78740	70	2.75590
21	0.82677	71	2.79527
22	0.86614	72	2.83464
23	0.90551	73	2.87401
24	0.94488	74	2.91338
25	0.98465	75	2.95275
26	1.02362	76	2.99212
27	1.06280	77	3.03449
28	1.10236	78	3.07086
29	1.14173	79	3.11023
30	1.18110	80	3.14960
31	1.22047	81	3.18897
32	1.25984	82	3.22834
33	1.29921	83	3.26771
34	1.33858	84	3.30708
35	1.37795	85	3.34645
36	1.41732	86	3.38582
37	1.45669	87	3.42519
38	1.49606	88	3.46456
39	1.53543	89	3.50393
40	1.57480	90	3.54330
41	1.61417	91	3.58267
42	1.65354	92	3.62204
43	1.69291	93	3.66141
44	1.73228	94	3.70078
45	1.77165	95	3.74015
46	1.81102	96	3.77952
47	1.85039	97	3.81889
48	1.88976	98	3.85826
49	1.92913	99	3.89763
50	1.96850	100	3.93700

WIDE FLANGE CONTINUED

ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
12W	19.0	12.16	4.005	.350	235
	22.0	12.31	4.030	.425	260
	26.0	12.22	6.490	.380	230
	30.0	12.34	6.520	.440	260
	35.0	12.50	6.560	.520	300
	40.0	11.94	8.005	.515	295
	45.0	12.06	8.045	.575	335
	50.0	12.19	8.080	.640	370
	53.0	12.06	9.995	.575	345
	58.0	12.19	10.010	.640	360
	65.0	12.12	12.000	.605	390
	72.0	12.25	12.040	.670	430
	79.0	12.38	12.080	.735	470
	87.0	12.53	12.125	.810	515
	96.0	12.71	12.160	.900	550
	106.0	12.89	12.220	.990	610
	120.0	13.12	12.320	1.105	710
136.0	13.41	12.400	1.250	790	
152.0	13.71	12.480	1.400	870	
170.0	14.03	12.570	1.560	960	
190.0	14.38	12.670	1.735	1,060	
12M 14W	11.8	12.00	3.000	.250	188
	22.0	13.74	5.000	.335	230
	26.0	13.91	5.025	.420	255
	30.0	13.84	6.730	.385	270
	34.0	13.98	6.745	.455	285
	38.0	14.10	6.770	.515	310
	43.0	13.66	7.995	.530	305
	48.0	13.79	8.030	.595	340
	53.0	13.92	8.060	.660	370
	61.0	13.89	9.995	.645	375
	68.0	14.04	10.035	.720	415
	74.0	14.17	10.070	.785	450
	82.0	14.31	10.130	.855	510
	90.0	14.02	14.520	.710	440
	109.0	14.32	14.605	.860	525
	120.0	14.48	14.670	.940	590
	132.0	14.66	14.725	1.030	645
159.0	14.98	15.565	1.190	745	
211.0	15.72	15.800	1.560	980	
233.0	16.04	15.890	1.720	1,070	
257.0	16.38	15.995	1.890	1,175	
283.0	16.74	16.110	2.070	1,290	
311.0	17.12	16.230	2.260	1,410	
342.0	17.54	16.360	2.470	1,540	
370.0	17.92	16.475	2.660	1,655	
398.0	18.29	16.590	2.845	1,770	
426.0	18.67	16.695	3.035	1,875	
455.0	19.02	16.835	3.210	2,015	
500.0	19.60	17.010	3.500	2,190	
550.0	20.24	17.200	3.820	2,380	
605.0	20.92	17.415	4.160	2,595	

WIDE FLANGE CONTINUED

ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
14W	665.0	21.64	17.650	4.520	2.830
	730.0	22.42	17.890	4.910	3.070
16W	26.0	15.69	5.500	.345	.250
	31.0	15.88	5.525	.440	.275
	36.0	15.86	6.985	.430	.295
	40.0	16.01	6.995	.505	.305
	45.0	16.13	7.035	.565	.345
	50.0	16.26	7.070	.630	.380
	57.0	16.43	7.120	.715	.430
	67.0	16.33	10.235	.665	.395
	77.0	16.52	10.295	.760	.455
	89.0	16.75	10.365	.875	.525
	100.0	16.97	10.425	.985	.585
18W	35.0	17.70	6.000	.425	.300
	40.0	17.90	6.015	.525	.315
	46.0	18.06	6.060	.605	.360
	50.0	17.99	7.495	.570	.355
	55.0	18.11	7.530	.630	.390
	60.0	18.24	7.555	.695	.415
	65.0	18.35	7.590	.750	.450
	71.0	18.47	7.635	.810	.495
	76.0	18.21	11.035	.680	.425
	86.0	18.39	11.090	.770	.480
	97.0	18.59	11.145	.870	.535
	106.0	18.73	11.200	.940	.590
	119.0	18.97	11.265	1.060	.655
	130.0	19.25	11.160	1.200	.620
143.0	19.49	11.220	1.320	.730	
21W	44.0	20.66	6.500	.450	.350
	50.0	20.83	6.530	.535	.380
	57.0	21.06	6.555	.650	.405
	62.0	20.99	8.240	.615	.400
	68.0	21.13	8.270	.685	.430
	73.0	21.24	8.295	.740	.455
	83.0	21.43	8.355	.835	.515
	93.0	21.62	8.420	.930	.580
	101.0	21.36	12.290	.800	.500
	111.0	21.51	12.340	.875	.550
	147.0	22.06	12.510	1.150	.720
24W	166.0	22.48	12.420	1.360	.750
	55.0	23.57	7.005	.505	.395
	62.0	23.74	7.040	.590	.430
	68.0	23.73	8.965	.585	.415
	76.0	23.92	8.990	.680	.440
	84.0	24.10	9.020	.770	.470
	94.0	24.31	9.065	.875	.515
	104.0	24.06	12.750	.750	.500
	117.0	24.26	12.800	.850	.550
	131.0	24.48	12.855	.960	.605
	146.0	24.74	12.900	1.090	.650
162.0	25.00	12.955	1.220	.705	
176.0	25.24	12.890	1.340	.750	

CONVERSION OF MILES TO KILOMETERS AND KILOMETERS TO MILES CONTINUED

Customary

1 sq. mile	2.59 sq. kilometers
1 acre	.405 hectare
1 sq. yard	.8361 sq. meter
1 sq. inch	6.45 sq. centimeters

VOLUME

Metric

1 cu. meter	1.308 cu. yards
1 liter	1.0567 liquid quarts (U.S.)
1 liter	9081 dry quart (U.S.)
1 liter	88 quart (Imperial)
1 milliliter	.06 cu. inch
(or 1 cu. centimeter)	

Customary

1 cu. yard	7646 cu. meter
1 liquid quart (U.S.)	9463 liter
1 dry quart (U.S.)	1.10 liters
1 quart (Imperial)	1.1365 liters
1 gallon (U.S.)	3.785 liters
1 gallon (Imperial)	4.546 liters
1 cu. inch	16.39 milliliters
	(or cu. centimeters)

WEIGHT

Metric

1 metric ton	2205 pounds
1 metric ton	1.1023 short tons
1 metric ton	9842 long ton
1 kilogram	2.205 pounds (avoirdupois)
1 kilogram	2.679 pounds (Troy)
1 gram	.0353 ounce (avoirdupois)
1 gram	.0322 ounce (Troy)
1 diamond carat	200 milligrams
	(1000 milligrams = 1 gram)

Customary

1 short (American) ton	2000 pounds
1 long (British) ton	2240 pounds
1 short ton	9072 metric ton
1 long ton	1.016 metric tons
1 pound (avoir.)	.4536 kilogram
1 pound (avoir.)	453.6 grams
1 pound (Troy)	.3732 kilogram
1 pound (Troy)	373.2 grams
1 ounce (avoir.)	28.35 grams
1 ounce (Troy)	31.103 grams

CONVERSION TABLES

LENGTH

Metric

1 kilometer	6214 mile (approximately 3/8's of a mile)
1 meter	1.094 yards (approximately 39 + inches)
1 meter	3.281 feet
1 centimeter	.3937 inch
1 millimeter	.039 inch

Customary

1 mile	1.6093 kilometers (approximate 1 1/8's kilometers)
1 yard	0.9144 meter
1 foot	0.3048 meter
1 inch	2.54 centimeters
1 inch	25.4 millimeters

AREA

Metric

1 sq. kilometer	.386 sq. mile
1 sq. kilometer	247.10 acres
1 hectare	2.471 acres
1 sq. meter	1.196 sq. yards
1 sq. meter	10.7646 sq. feet
1 sq. centimeter	.155 sq. inch

WIDE FLANGE CONTINUED

ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
27W	84.0	26.71	9.960	.640	.460
	94.0	26.92	9.990	.745	.490
	102.0	27.09	10.015	.830	.515
	114.0	27.29	10.070	.930	.570
	146.0	27.38	13.965	.975	.605
	161.0	27.59	14.020	1.080	.660
	178.0	27.81	14.085	1.190	.725
	194.0	28.11	14.035	1.340	.750
	217.0	28.43	14.115	1.500	.830
	99.0	29.65	10.450	.670	.520
30W	108.0	29.83	10.475	.760	.545
	116.0	30.01	10.495	.850	.565
	124.0	30.17	10.515	.930	.585
	132.0	30.31	10.545	1.000	.615
	148.0	30.67	10.480	1.180	.650
33W	118.0	32.86	11.480	.740	.550
	130.0	33.09	11.510	.855	.580
	141.0	33.30	11.535	.960	.605
	152.0	33.49	11.565	1.055	.635
	169.0	33.82	11.500	1.220	.670
36W	201.0	33.68	15.745	1.150	.715
	221.0	33.93	15.805	1.275	.775
	241.0	34.18	15.860	1.400	.830
	263.0	34.53	15.805	1.570	.870
	291.0	34.84	15.905	1.730	.960
	318.0	35.16	15.985	1.890	1.040
	354.0	35.55	16.100	2.090	1.160
	135.0	35.55	11.950	.790	.600
	150.0	35.85	11.975	.940	.625
	160.0	36.01	12.000	1.020	.650
	170.0	36.17	12.030	1.100	.680
	182.0	36.33	12.075	1.180	.725
	194.0	36.49	12.115	1.260	.765
	210.0	36.69	12.180	1.360	.830
	230.0	35.90	16.470	1.260	.760
245.0	36.08	16.510	1.350	.800	
260.0	36.26	16.550	1.440	.840	
280.0	36.52	16.595	1.570	.885	
300.0	36.74	16.655	1.680	.945	
328.0	37.09	16.630	1.850	1.020	
359.0	37.40	16.730	2.010	1.120	

STANDARD CHANNELS

ASTM A-36

STRUCTURAL STOCK LENGTHS:

Thru 12" : 20', 40'

Over 12" : 20', 40'

	Depth of Section	Wt. Per Ft.	Flange Width	Web Thickness
3" x	4.10	1.410	.170	
	5.00	1.498	.258	
	6.00	1.596	.356	
4" x	5.40	1.580	.180	
	7.25	1.720	.320	
5" x	6.70	1.750	.190	
	9.00	1.885	.325	
6" x	8.20	1.920	.200	
	10.50	2.034	.314	
	13.00	2.157	.437	
7" x	9.80	2.090	.210	
	12.25	2.194	.314	
	14.75	2.299	.419	
8" x	11.50	2.260	.220	
	13.75	2.343	.303	
	18.75	2.527	.487	
9" x	13.40	2.430	.230	
	15.00	2.485	.285	
	20.00	2.648	.448	
10" x	15.30	2.600	.240	
	20.00	2.739	.379	
	25.00	2.886	.526	
	30.00	3.033	.673	
12" x	20.70	2.940	.280	
	25.00	3.047	.387	
	30.00	3.170	.510	
15" x	33.90	3.400	.400	
	40.00	3.520	.520	
	50.00	3.716	.716	

CONVERSION OF MILES TO KILOMETERS AND KILOMETERS TO MILES

Miles	Kilometers	Kilometers	Miles
1	1.6	1	0.6
2	3.2	2	1.2
3	4.8	3	1.8
4	6.4	4	2.4
5	8.0	5	3.1
6	9.6	6	3.7
7	11.2	7	4.3
8	12.8	8	4.9
9	14.4	9	5.5
10	16.0	10	6.2
20	32.1	20	12.4
30	48.2	30	18.6
40	64.3	40	24.8
50	80.4	50	31.0
60	96.5	60	37.2
70	112.6	70	43.4
80	128.7	80	49.7
90	144.8	90	55.9
100	160.9	100	62.1
1000	1609	1000	621

STANDARD GAUGES

When ordering, specify decimal as well as name of gauge.

Gauge	American or Brown & Sharpe	Birmingham or Stubs	U.S. Standard	Mfgs. Standard	Steel Wire or Washburn & Moen	Galvanized Sheet	Gauge
	Non-Ferrous Sheet-Wire & rod	Tube Ferrous Strip, Flat Wire Spring Steel	Stainless	Ferrous Sheet	Ferrous Wire (Except Music Wire)		
6-0	.5800		.469		.4615		6-0
5-0	.5165		.438		.4305		5-0
4-0	.4600	.454	.406		.3938		4-0
3-0	.4096	.425	.375		.3626		3-0
2-0	.3648	.380	.344		.3310		2-0
1-0	.3249	.340	.312		.3065		1-0
1	.2893	.300	.281		.2830		1
2	.2576	.284	.266		.2625		2
3	.2294	.259	.250	.2391	.2437		3
4	.2043	.238	.234	.2242	.2253		4
5	.1819	.220	.219	.2092	.2070		5
6	.1620	.203	.203	.1943	.1920		6
7	.1443	.180	.188	.1793	.1770		7
8	.1285	.165	.172	.1644	.1620	.1681	8
9	.1144	.148	.156	.1495	.1483	.1532	9
10	.1019	.134	.141	.1345	.1350	.1382	10
11	.0907	.120	.125	.1196	.1205	.1233	11
12	.0808	.109	.109	.1046	.1055	.1084	12
13	.0720	.095	.0938	.0897	.0915	.0934	13
14	.0641	.083	.0781	.0747	.0800	.0785	14
15	.0571	.072	.0703	.0673	.0720	.0710	15
16	.0508	.065	.0625	.0598	.0625	.0635	16
17	.0453	.058	.0562	.0538	.0540	.0575	17
18	.0403	.049	.0500	.0478	.0475	.0516	18
19	.0359	.042	.0438	.0418	.0410	.0456	19
20	.0320	.035	.0375	.0359	.0348	.0396	20
21	.0285	.032	.0375	.0359	.0348	.0396	21
22	.0253	.028	.0312	.0299	.0286	.0336	22
23	.0226	.025	.0281	.0269	.0258	.0306	23
24	.0201	.022	.0250	.0239	.0230	.0276	24
25	.0179	.020	.0219	.0209	.0204	.0247	25
26	.0159	.018	.0188	.0179	.0181	.0220	26
27	.0142	.016	.0172	.0164	.0173	.0190	27
28	.0126	.014	.0156	.0149	.0162	.0187	28
29	.0113	.013	.0141	.0135	.0150	.0172	29
30	.0100	.012	.0125	.0120	.0140	.0157	30
31	.0089	.010	.0109	.0105	.0132	.0142	31
32	.0080	.009	.0102	.0097	.0128	.0134	32
33	.0071	.008	.00938	.0090	.0118		33
34	.0063	.007	.00859	.0082	.0104		34
35	.0056	.005	.00781	.0075	.0095		35
36	.0050	.004	.00703	.0067	.0090		36
37	.0045		.00664	.0064	.0085		37
38	.0040		.00625	.0060	.0080		38

ALUMINUM-BRASS-STAINLESS
COPPER-ALLOY-CARBON

MISCELLANEOUS CHANNELS

ASTM A-36

STOCK LENGTHS:

Thru 12" : 20', 40'

Over 12" : 20', 40'

Depth of Section	Wt. Per Ft.	Flange Width	Web Thickness
3" x	7.1	1.938	.313
	9.0	2.122	.497
4" x	13.8	2.500	.500
6" x	12.0	2.500	.313
	15.1	2.938	.313
	15.3	3.500	.340
	16.3	3.000	.375
	18.0	3.500	.375
7" x	17.6	3.000	.375
	19.1	3.450	.350
	22.7	3.600	.500
8" x	8.50	1.875	.180
	18.7	2.975	.350
	20.0	3.025	.400
	21.4	3.450	.375
	22.8	3.500	.425
9" x	23.9	3.450	.400
	25.4	3.500	.450
10" x	6.5	1.125	.150
	8.4	1.500	.170
	22.0	3.315	.290
	28.5	3.950	.425
12" x	10.6	1.500	.190
	31.0	3.670	.370
	35.0	3.767	.467
	40.0	3.890	.590
	50.0	4.135	.835
13" x	31.8	4.000	.375
	35.0	4.072	.447
	40.0	4.185	.560
	50.0	4.412	.787
18" x	42.7	3.950	.450
	45.8	4.000	.500
	51.9	4.100	.600
	58.0	4.200	.700

ANGLES

A-36

BAR SIZE:

STOCK LENGTHS: 20' AND 40'

STRUCTURAL

STOCK LENGTHS: 20', 40' AND 60'

Size	Weight Per Ft.	Size	Weight Per Ft.
1/2 x 1/2 x 1/8	.38	2 1/2 x 2 x 3/16	2.75
5/8 x 5/8 x 1/8	.48	x 1/4	3.62
3/4 x 3/4 x 1/8	.59	x 5/16	4.50
7/8 x 7/8 x 1/8	.70	x 3/8	5.30
1 x 5/8 x 1/8	.64	2 1/2 x 2 1/2 x 3/16	3.07
1 x 1 x 1/8	.80	x 1/4	4.10
x 3/16	1.16	x 5/16	5.00
x 1/4	1.49	x 3/8	5.90
1 1/8 x 1 1/8 x 1/8	.90	x 1/2	7.70
1 1/4 x 1 1/4 x 1/8	1.01	STRUCTURAL	
x 3/16	1.48	3 x 2 x 3/16	3.10
x 1/4	1.92	x 1/4	4.10
1 1/2 x 1 1/4 x 3/16	1.64	x 5/16	5.00
1 1/2 x 1 1/2 x 1/8	1.23	x 3/8	5.90
x 3/16	1.80	x 1/2	7.70
x 1/4	2.34	3 x 2 1/2 x 1/4	4.50
1 3/4 x 1 1/4 x 1/8	1.23	x 5/16	5.60
1 3/4 x 1 3/4 x 1/8	1.44	x 3/8	6.60
x 3/16	2.12	x 1/2	8.50
x 1/4	2.77	3 x 3 x 3/16	3.70
2 x 1 1/4 x 3/16	1.96	x 1/4	4.90
x 1/4	2.55	x 5/16	6.10
2 x 1 1/2 x 1/8	1.44	x 3/8	7.20
x 3/16	2.12	x 1/2	9.40
x 1/4	2.77	3 1/2 x 2 1/2 x 1/4	4.90
2 x 2 x 1/8	1.65	x 5/16	6.10
x 3/16	2.44	x 3/8	7.20
x 1/4	3.19	x 1/2	9.40
x 5/16	3.92	3 1/2 x 3 x 1/4	5.40
x 3/8	4.70	x 5/16	6.60
2 1/2 x 1 1/2 x 3/16	2.44	x 3/8	7.90
x 1/4	3.19	x 1/2	10.20
x 5/16	3.92	3 1/2 x 3 1/2 x 1/4	5.80

CONVERTING INCHES INTO DECIMALS OF A FOOT

Inches	Decimal of a Ft.	Inches	Decimal of a Ft.	Inches	Decimal of a Ft.
0"	1/16 .005208	4"	1/16 .338542	8"	1/16 .671875
	1/8 .010416		1/8 .343750		1/8 .677083
	3/16 .015625		3/16 .348958		3/16 .682292
	1/4 .020833		1/4 .354166		1/4 .687500
	5/16 .026042		5/16 .359375		5/16 .692708
	3/8 .031250		3/8 .364583		3/8 .697916
	7/16 .036458		7/16 .369792		7/16 .703125
	1/2 .041666	.33333	1/2 .375000	.66666	1/2 .708323
	9/16 .046875		9/16 .380208		9/16 .713542
	5/8 .052083		5/8 .385416		5/8 .718750
	11/16 .057292		11/16 .390625		11/16 .723958
	3/4 .062500		3/4 .395833		3/4 .729166
	13/16 .067708		13/16 .401042		13/16 .734375
	7/8 .072916		7/8 .406250		7/8 .739583
	15/16 .078125		15/16 .411458		15/16 .744792
	1/16 .088542		1/16 .421875		1/16 .755208
	1/8 .093750		1/8 .427083		1/8 .760416
	3/16 .098958		3/16 .432292		3/16 .765625
	1/4 .104166		1/4 .437500		1/4 .770833
	5/16 .109375		5/16 .442708		5/16 .776042
	3/8 .114583		3/8 .447916		3/8 .781250
	7/16 .119792		7/16 .453125		7/16 .786458
1"	1/2 .125000	5"	1/2 .458333	9"	1/2 .791666
.083333	9/16 .130208	.416666	9/16 .463542	.750	9/16 .796875
	5/8 .135416		5/8 .468750		5/8 .802083
	11/16 .140625		11/16 .473958		11/16 .807292
	3/4 .145833		3/4 .479166		3/4 .812500
	13/16 .151042		13/16 .484375		13/16 .817708
	7/8 .156250		7/8 .489583		7/8 .822916
	15/16 .161458		15/16 .494792		15/16 .828125
	1/16 .171875		1/16 .505208		1/16 .838542
	1/8 .177083		1/8 .510416		1/8 .843750
	3/16 .182292		3/16 .515625		3/16 .848958
	1/4 .187500		1/4 .520833		1/4 .854166
	5/16 .192708		5/16 .526042		5/16 .859375
	3/8 .197906		3/8 .531250		3/8 .864583
	7/16 .203175		7/16 .536458		7/16 .869792
2"	1/2 .208333	6"	1/2 .541666	10"	1/2 .875000
.166666	9/16 .213542	.50	9/16 .546875	.833333	9/16 .880208
	5/8 .218750		5/8 .552083		5/8 .885416
	11/16 .223958		11/16 .557292		11/16 .890625
	3/4 .229166		3/4 .562500		3/4 .895833
	13/16 .234375		13/16 .567708		13/16 .901042
	7/8 .239583		7/8 .572916		7/8 .906250
	15/16 .244792		15/16 .578125		15/16 .911458
	1/16 .255208		1/16 .588542		1/16 .921875
	1/8 .260416		1/8 .593750		1/8 .927083
	3/16 .265625		3/16 .598958		3/16 .932292
	1/4 .270833		1/4 .604166		1/4 .937500
	5/16 .276042		5/16 .609375		5/16 .942708
	3/8 .281250		3/8 .614583		3/8 .947916
	7/16 .286458		7/16 .619792		7/16 .953125
	1/2 .291666		1/2 .625000		1/2 .958333
	9/16 .296875		9/16 .630208		9/16 .963542
	5/8 .302083		5/8 .635416		5/8 .968750
	11/16 .307292		11/16 .640625		11/16 .973958
	3/4 .312500		3/4 .645803		3/4 .979166
	13/16 .317708		13/16 .651042		13/16 .984375
	7/8 .322916		7/8 .656250		7/8 .989583
	15/16 .328125		15/16 .661458		15/16 .994792
3"	1/16 .255208	7"	1/16 .588542	11"	1/16 .921875
.250	1/8 .260416	.583333	1/8 .593750	.916666	1/8 .927083
	3/16 .265625		3/16 .598958		3/16 .932292
	1/4 .270833		1/4 .604166		1/4 .937500
	5/16 .276042		5/16 .609375		5/16 .942708
	3/8 .281250		3/8 .614583		3/8 .947916
	7/16 .286458		7/16 .619792		7/16 .953125
	1/2 .291666		1/2 .625000		1/2 .958333
	9/16 .296875		9/16 .630208		9/16 .963542
	5/8 .302083		5/8 .635416		5/8 .968750
	11/16 .307292		11/16 .640625		11/16 .973958
	3/4 .312500		3/4 .645803		3/4 .979166
	13/16 .317708		13/16 .651042		13/16 .984375
	7/8 .322916		7/8 .656250		7/8 .989583
	15/16 .328125		15/16 .661458		15/16 .994792

FRACTIONS AND DECIMAL EQUIVALENTS

1/64 — .015625	33/64 — .515625
1/32 — .03125	17/32 — .53125
3/64 — .046875	35/64 — .546875
1/16 — .0625	9/16 — .5625
5/64 — .078125	37/64 — .578125
3/32 — .09375	19/32 — .59375
7/64 — .109375	39/64 — .609375
1/8 — .125	5/8 — .625
9/64 — .140625	41/64 — .640625
5/32 — .15625	21/32 — .65625
11/64 — .171875	43/64 — .671875
3/16 — .1875	11/16 — .6875
13/64 — .203125	45/64 — .703125
7/32 — .21875	23/32 — .71875
15/64 — .234375	47/64 — .734375
1/4 — .25	3/4 — .75
17/64 — .265625	49/64 — .765625
9/32 — .28125	25/32 — .78125
19/64 — .296875	51/64 — .796875
5/16 — .3125	13/16 — .8125
21/64 — .328125	53/64 — .828125
11/32 — .34375	27/32 — .84375
23/64 — .359375	55/64 — .859375
3/8 — .375	7/8 — .875
25/64 — .390625	57/64 — .890625
13/32 — .40625	29/32 — .90625
27/64 — .421875	59/64 — .921875
7/16 — .4375	15/16 — .9375
29/64 — .453125	61/64 — .953125
15/32 — .46875	31/32 — .96875
31/64 — .484375	63/64 — .984375
1/2 — .5	1 — 1.

ANGLES CONTINUED

A-36

Size	Weight Per Ft.	Size	Weight Per Ft.
3 1/2 x 3 1/2 x 5/16	7.20	5 x 5 x 3/4	23.6
x 3/8	8.50	6 x 3 1/2 x 5/16	9.8
x 1/2	11.10	x 3/8	11.7
4 x 3 x 1/4	5.80	x 1/2	15.3
x 5/16	7.20	6 x 4 x 5/16	10.3
x 3/8	8.50	x 3/8	12.3
x 1/2	11.10	x 1/2	16.2
4 x 3 1/2 x 1/4	6.2	x 5/8	20.0
x 5/16	7.7	x 3/4	23.6
x 3/8	9.1	6 x 6 x 3/8	14.9
x 1/2	11.9	x 1/2	19.6
4 x 4 x 1/4	6.6	x 5/8	24.2
x 5/16	8.2	x 3/4	28.7
x 3/8	9.8	x 7/8	33.1
x 1/2	12.8	x 1	37.4
x 5/8	15.7	7 x 4 x 3/8	13.6
x 3/4	18.5	x 1/2	17.9
5 x 3 x 1/4	6.6	x 5/8	22.1
x 5/16	8.2	x 3/4	26.2
x 3/8	9.8	8 x 4 x 1/2	19.6
x 1/2	12.8	x 5/8	24.2
5 x 3 1/2 x 1/4	7.0	x 3/4	28.7
x 5/16	8.7	x 1	37.4
x 3/8	10.4	8 x 6 x 1/2	23.0
x 1/2	13.6	x 3/4	33.8
x 5/8	16.8	x 1	44.2
x 3/4	19.8	8 x 8 x 1/2	26.4
5 x 5 x 5/16	10.3	x 5/8	32.7
x 3/8	12.3	x 3/4	38.9
x 1/2	16.2	x 1	51.0
x 5/8	20.0	x 1 1/8	56.9

STRUCTURAL ROLLED T-BAR

A-36

STOCK LENGTHS: 20'

Size	Weight Per Ft.
1 1/4 x 1 1/4 x 3/16	1.55
1 1/2 x 1 1/2 x 3/16	1.90
x 1/4	2.43
1 3/4 x 1 3/4 x 3/16	2.26
2 x 2 x 1/4	3.62
x 5/16	4.30
2 1/2 x 2 1/2 x 1/4	4.60

BAR CHANNELS

A-36

STOCK LENGTHS: 20'

Size	Weight Per Ft.
3/4 x 3/8 x 1/8	.56
7/8 x 3/8 x 1/8	.65
1 x 3/8 x 1/8	.68
1 x 1/2 x 1/8	.84
1 1/4 x 1/2 x 1/8	1.01
1 1/2 x 1/2 x 1/8	1.12
2 x 1/2 x 1/8	1.47
2 x 5/8 x 1/4	2.28
2 x 1 x 1/8	1.59
2 x 1 x 3/16	2.32
2 1/2 x 5/8 x 3/16	2.27

ALUMINUM EXTRUDED SQUARE TUBING

6063-T5 SHARP CORNERS

Size in Inches	Wall Thickness Inches	Weight Lb./Ft.	Size in Inches	Wall Thickness Inches	Weight Lb./Ft.
3/4 x 3/4	.125	.376	1 3/4 x 1 3/4	.125	.974
1 x 1	.125	.526	2 x 2	.125	1.126
1 1/4 x 1 1/4	.125	.674	3 x 3	.125	1.726
1 1/2 x 1 1/2	.125	.825	4 x 4	.125	2.326

ALUMINUM EXTRUDED SQUARE TUBING

6061-T6 SHARP CORNERS

Size in Inches	Wall Thickness Inches	Weight Lb./Ft.	Size in Inches	Wall Thickness Inches	Weight Lb./Ft.
2 x 2	.188	1.636	3 x 3	.250	3.298
2 x 2	.250	2.100	4 x 4	.188	3.372
3 x 3	.188	2.538	4 x 4	.250	4.500

ALUMINUM EXTRUDED RECTANGULAR TUBING

6063-T5 SHARP CORNERS

Size in Inches	Wall Thickness Inches	Weight Lb./Ft.	Size in Inches	Wall Thickness Inches	Weight Lb./Ft.
1/2 x 1	.125	.383	1 3/4 x 3	.125	1.339
3/4 x 1 1/2	.125	.604	x 3 1/2	.125	1.486
1 x 1 1/2	.125	.677	x 4	.125	1.633
x 2	.125	.824	x 4 1/2	.125	1.780
1 1/4 x 2 1/2	.125	1.045	x 5	.125	1.927
1 1/2 x 2	.125	.971	2 x 3	.125	1.412
			x 5	.125	2.000

ALUMINUM EXTRUDED ROUND TUBING

6061-T6

O.D. Inches	Wall Thickness Inches	I.D. Inches	Weight Lb./Ft.
2	x 3/8	1 1/4	2.25
2 1/2	x 3/8	1 3/4	2.94
3	x 3/8	2 1/4	3.64
3	x 1/2	2	4.62
3	x 3/4	1 1/2	6.23
3 1/4	x 3/8	2 1/2	3.98
3 1/4	x 1/2	2 1/4	5.08
3 1/2	x 1/4	3	3.00
3 1/2	x 3/8	2 3/4	4.33
3 1/2	x 1/2	2 1/2	5.54
3 1/2	x 3/4	2	7.62
4	x 1/4	3 1/2	3.46
4	x 3/8	3 1/4	5.02
4	x 1/2	3	6.47
4	x 3/4	2 1/2	9.01
4	x 1	2	11.08
4 1/2	x 1/2	3 1/2	7.39
4 1/2	x 3/4	3	10.39
4 1/2	x 1	2 1/2	12.93
5	x 3/16	4 5/8	3.34
5	x 1/4	4 1/2	4.39
5	x 1/2	4	8.31
5	x 3/4	3 1/2	11.78
5	x 1	3	14.78
5 1/2	x 1/2	4 1/2	9.24
5 1/2	x 3/4	4	13.16
6	x 1/4	5 1/2	5.31
6	x 3/8	5 1/4	7.79
6	x 1/2	5	10.16
6	x 3/4	4 1/2	14.55

FLAT BAR

HOT ROLLED,
COLD FINISHED, ALLOY

STOCK LENGTHS: 10', 12', 20' R/L

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1/8 x 1/4	.106	3/16 x 6	3.820
5/16	.133	1/4 x 3/8	.319
3/8	.159	1/2	.425
7/16	.186	5/8	.531
1/2	.213	3/4	.638
5/8	.266	1	.850
3/4	.319	1 1/4	1.060
7/8	.372	1 1/2	1.280
1	.425	1 3/4	1.490
1 1/4	.531	2	1.700
1 1/2	.638	2 1/4	1.910
1 3/4	.744	2 1/2	2.130
2	.850	3	2.550
2 1/2	1.060	1/4 x 3 1/2	2.980
3	1.280	4	3.400
3 1/2	1.490	4 1/2	3.830
4	1.700	5	4.250
5	2.130	6	5.100
6	2.550	8	6.800
8	3.400	10	8.500
3/16 x 1/2	.319	12	10.200
3/4	.478	5/16 x 1/2	.531
7/8	.558	5/8	.664
1	.638	3/4	.797
1 1/4	.797	1	1.060
1 1/2	.956	1 1/4	1.330
1 3/4	1.120	1 1/2	1.590
2	1.280	2	2.130
2 1/4	1.430	2 1/2	2.660
2 1/2	1.590	3	3.190
3	1.910	3 1/2	3.720
3 1/2	2.230	4	4.250
4	2.550	5	5.310
5	3.190	6	6.380

FLAT BAR CONTINUED

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
3/8 x 1/2	.638	1/2 x 5	8.500
5/8	.797	6	10.200
3/4	.956	8	13.600
7/8	1.120	10	17.000
1	1.280	12	20.400
1 1/4	1.590	5/8 x 3/4	1.590
1 1/2	1.910	1	2.130
1 3/4	2.230	1 1/4	2.660
2	2.550	1 1/2	3.190
2 1/2	3.190	2	4.250
3	3.830	2 1/4	4.780
3 1/2	4.460	2 1/2	5.310
4	5.100	3	6.380
5	6.380	3 1/2	7.440
6	7.650	4	8.500
8	10.200	5	10.630
10	12.750	6	12.750
12	15.300	8	17.000
7/16 x 1/2	.744	10	21.250
3/4	1.120	12	25.500
1	1.490	3/4 x 1	2.550
1 1/4	1.860	1 1/4	3.190
2	2.980	1 1/2	3.830
2 1/2	3.720	1 3/4	4.460
1/2 x 5/8	1.060	2	5.100
3/4	1.280	2 1/4	5.740
7/8	1.490	2 1/2	6.380
1	1.700	3	7.650
1 1/4	2.130	3 1/2	8.930
1 1/2	2.550	4	10.200
1 3/4	2.980	4 1/2	11.480
2	3.400	5	12.750
2 1/4	3.830	6	15.300
2 1/2	4.250	8	20.400
2 3/4	4.680	10	25.500
3	5.100	12	30.600
3 1/2	5.950	7/8 x 1	2.980
4	6.800	1 1/2	4.460
4 1/2	7.650	2	5.950

ALUMINUM PIPE—Schedule 40

6061-T6
6063-T6

I.P.S. in Inches	Diameter Inches		Wall Thickness Inches	Weight per Foot
	Outside	Inside		
1/8	.405	.269	.068	.085
1/4	.540	.364	.088	.147
3/8	.675	.493	.091	.196
1/2	.840	.622	.109	.294
3/4	1.050	.824	.113	.391
1	1.315	1.049	.133	.581
1 1/4	1.660	1.380	.140	.786
1 1/2	1.900	1.610	.145	.940
2	2.375	2.067	.154	1.260
2 1/2	2.875	2.469	.203	2.000
3	3.500	3.068	.216	2.620
3 1/2	4.000	3.548	.226	3.150
4	4.500	4.026	.237	3.730
5	5.563	5.047	.258	5.060
6	6.625	6.065	.280	6.560
8	8.625	7.981	.322	9.880
10	10.750	10.020	.365	14.000
12	12.750	12.000	.375	17.140

ALUMINUM PIPE—Schedule 80

6061-T6

I.P.S. in Inches	Diameter Inches		Wall Thickness Inches	Weight per Foot
	Outside	Inside		
1	1.315	.957	.179	.75
1 1/4	1.660	1.278	.191	1.04
1 1/2	1.900	1.500	.200	1.25
2	2.375	1.939	.218	1.74
3	3.500	2.900	.300	3.54
3 1/2	4.000	3.364	.318	4.33
4	4.500	3.826	.337	5.18
5	5.563	4.813	.375	7.26
6	6.625	5.761	.432	9.98
8	8.625	7.625	.500	15.16

ALUMINUM ARCHITECTURAL ANGLES CONTINUED

Size in Inches				Weight Per Ft.	
1.250	x	1.250	x	.188	.519
1.250	x	3.500	x	.125	.694
1.500	x	1.500	x	.125	.431
1.500	x	1.500	x	.188	.633
1.750	x	1.750	x	.125	.506
2.000	x	2.000	x	.125	.581
2.000	x	2.000	x	.188	.857
2.000	x	2.000	x	.250	1.124

ALUMINUM ARCHITECTURAL CHANNELS

6063-T52

A Inches	B Inches	C Inches	Weight Per Ft.
.500	.375	.125	.150
.500	.500	.094	.148
.500	.750	.125	.263
.625	.625	.125	.244
.750	.375	.125	.187
.750	.750	.125	.300
1.000	.500	.125	.263
1.000	1.000	.125	.413
1.250	.500	.125	.300
1.250	1.250	.125	.526
1.438	.500	.094	.251
1.500	.500	.125	.337
1.750	.500	.125	.374
1.750	.750	.125	.450
1.750	1.000	.125	.524
2.000	.500	.125	.413
2.000	1.000	.125	.564
2.250	.875	.125	.563
2.500	1.500	.125	.787
3.000	.500	.125	.563
3.000	1.000	.125	.713

FLAT BAR CONTINUED

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
7/8 x 2 1/2	7.440	1 1/2 x 2 1/2	12.750
3	8.930	3	15.300
5	14.880	3 1/2	17.850
6	17.850	4	20.400
1 x 1 1/4	4.250	5	25.500
1 1/2	5.100	6	30.600
1 3/4	5.950	8	40.800
2	6.800	10	51.000
2 1/4	7.650	12	61.200
2 1/2	8.500	1 3/4 x 2	11.90
3	10.200	3 1/2	20.830
3 1/2	11.900	4	23.80
4	13.600	2 x 2 1/4	15.30
4 1/2	15.300	2 1/2	17.000
5	17.000	3	20.400
6	20.400	3 1/2	23.800
8	27.200	4	27.200
10	34.000	5	34.000
12	40.080	6	40.800
1 1/4 x 1 1/2	6.38	8	54.400
2	8.500	10	68.000
2 1/2	10.630	12	81.600
3	12.750	2 1/4 x 4	30.600
3 1/2	14.88	4 1/2	34.430
4	17.000	2 1/2 x 3 1/2	29.750
5	21.250	4	34.000
6	25.500	5	42.500
8	34.000	6	51.000
10	42.500	8	68.000
12	51.000	3 x 4	40.800
1 1/2 x 2	10.200	4 1/2	45.900

SQUARE BARS

**HOT ROLLED,
COLD FINISHED**

STOCK LENGTHS: 12' R/L, 20' R/L

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1/8	.053	1 3/16	4.795
3/16	.120	1 1/4	5.310
1/4	.213	1 3/8	6.430
5/16	.332	1 1/2	7.650
3/8	.478	1 3/4	10.410
7/16	.652	2	13.600
1/2	.850	2 1/4	17.210
9/16	1.080	2 1/2	21.250
5/8	1.330	2 3/4	25.710
1 1/16	1.610	3	30.600
3/4	1.910	3 1/2	41.650
13/16	2.240	4	54.400
7/8	2.600	5	85.000
15/16	2.990	5 1/2	102.90
1	3.400	6	122.40
1 1/8	4.300		

ROUND BARS

**HOT ROLLED, COLD FINISHED,
ALLOY, CHROME-PLATED**

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1/8	.042	5/8	1.040
3/16	.094	1 1/16	1.260
1/4	.167	3/4"	1.500
5/16	.261	13/16	1.760
3/8	.376	7/8	2.040
7/16	.511	15/16	2.350
1/2	.688	1	2.670
17/32	.754	1 1/16	3.010
9/16	.845	1 1/8	3.380

ALUMINUM I-BEAM

6061-T6 Aluminum Association

Size in Inches	Flange Width Inches	Weight Per Ft.
3 x .130	2.50	1.637
.150	2.50	2.030
4 x .150	3.00	2.310
.170	3.00	2.790
5 x .190	3.50	3.699
6 x .190	4.00	4.030
.210	4.00	4.693
8 x .230	5.00	6.181
.250	5.00	7.023

ALUMINUM ARCHITECTURAL ANGLES

6063-T52

Size in Inches				Weight Per Ft.	
.375	x	.750	x	.094	.116
.500	x	.500	x	.062	.070
.500	x	.500	x	.125	.131
.500	x	1.000	x	.094	.158
.500	x	1.000	x	.125	.206
.500	x	1.250	x	.125	.244
.625	x	.625	x	.125	.168
.750	x	.750	x	.062	.108
.750	x	.750	x	.125	.206
.750	x	1.000	x	.125	.244
.750	x	1.500	x	.125	.319
1.000	x	1.000	x	.062	.145
1.000	x	1.000	x	.125	.281
1.000	x	1.000	x	.188	.408
1.000	x	1.500	x	.125	.356
1.000	x	2.000	x	.125	.431
1.250	x	1.250	x	.125	.356

ALUMINUM H-BEAMS-WF

6061-T6

Size in Inches Web (Depth × Thickness)	Flange Width Inches	Weight Per Ft.
4 × .313	4.000	4.76
5 × .313	5.000	6.49
6 × .250	5.938	7.85
6 × .240	6.000	5.40
8 × .230	5.250	5.91
8 × .245	6.500	8.32
8 × .288	8.000	10.73

ALUMINUM I-BEAMS

6061-T6 American Standard

Size in Inches Web (Depth × Thickness)	Flange Width Inches	Weight Per Ft.
3 × .170	2.330	1.96
× .349	2.509	2.59
4 × .190	2.660	2.64
× .326	2.796	3.28
5 × .210	3.000	3.43
× .494	3.284	5.10
6 × .230	3.330	4.30
× .343	3.443	5.10
8 × .270	4.000	6.34

ROUND BARS CONTINUED

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1 ³ / ₁₆	3.770	3 ⁵ / ₈	35.090
1 ¹ / ₄	4.170	3 ¹¹ / ₁₆	36.310
1 ⁵ / ₁₆	4.600	3 ³ / ₄	37.550
1 ³ / ₈	5.050	3 ⁷ / ₈	40.100
1 ⁷ / ₁₆	5.520	3 ¹⁵ / ₁₆	41.400
1 ¹ / ₂	6.010	4	42.730
1 ⁵ / ₈	7.050	4 ³ / ₁₆	46.830
1 ¹¹ / ₁₆	7.600	4 ¹ / ₄	48.230
1 ³ / ₄	8.180	4 ⁷ / ₁₆	52.580
1 ¹³ / ₁₆	8.770	4 ¹ / ₂	54.080
1 ⁷ / ₈	9.390	4 ³ / ₄	60.250
1 ¹⁵ / ₁₆	10.020	4 ¹⁵ / ₁₆	65.100
2	10.680	5	66.760
2 ¹ / ₁₆	11.360	5 ¹ / ₄	73.600
2 ¹ / ₈	12.060	5 ⁷ / ₁₆	78.950
2 ³ / ₁₆	12.780	5 ¹ / ₂	80.780
2 ¹ / ₄	13.520	5 ³ / ₄	88.290
2 ⁵ / ₁₆	14.280	5 ¹⁵ / ₁₆	94.140
2 ³ / ₈	15.060	6	96.130
2 ⁷ / ₁₆	15.870	6 ¹ / ₄	104.31
2 ¹ / ₂	16.690	6 ³ / ₈	108.52
2 ⁹ / ₁₆	17.530	6 ¹ / ₂	112.80
2 ⁵ / ₈	18.400	6 ⁵ / ₈	117.20
2 ¹¹ / ₁₆	19.290	6 ³ / ₄	121.67
2 ³ / ₄	20.200	7	130.90
2 ⁷ / ₈	22.070	7 ¹ / ₄	140.40
2 ¹⁵ / ₁₆	23.040	7 ¹ / ₂	150.20
3	24.030	8	170.90
3 ¹ / ₈	26.080	8 ¹ / ₂	192.90
3 ³ / ₁₆	27.130	9	216.30
3 ¹ / ₄	28.210	9 ¹ / ₄	228.48
3 ⁵ / ₁₆	29.300	9 ¹ / ₂	241.00
3 ³ / ₈	30.420	10	267.00
3 ⁷ / ₁₆	31.550	11	323.07
3 ¹ / ₂	32.710	12	384.50
3 ⁹ / ₁₆	33.890		

REINFORCING BAR

STOCK LENGTHS: 20'

No.	Size in Inches	Weight Per Foot
3	3/8	.376
4	1/2	.668
5	5/8	1.043
6	3/4	1.502
7	7/8	2.044
8	1	2.670

HEXAGON BAR

STOCK LENGTHS: 12'

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1/8	.184	1 1/8	3.730
5/16	.288	1 1/4	4.600
3/8	.414	1 3/8	5.570
7/16	.564	1 7/16	6.085
1/2	.736	1 1/2	6.630
9/16	.932	1 5/8	7.780
5/8	1.150	1 3/4	9.020
11/16	1.390	1 13/16	9.673
3/4	1.660	1 7/8	10.350
7/8	2.250	2	11.780
15/16	2.588	2 1/4	14.910
1	2.940	2 1/2	18.400
1 1/16	3.320	3	26.500

ALUMINUM-STRUCTURAL CHANNELS CONTINUED

Size in Inches Web (Depth x Thickness)	Flange Width Inches	Weight Per Ft.
4 x .247	1.647	2.16
x .320	1.720	2.50
5 x .190	1.750	2.32
x .325	1.885	3.11
x .472	2.032	3.97
6 x .200	1.920	2.83
x .225	1.945	3.00
x .314	2.034	3.63
x .437	2.157	4.48
7 x .230	2.110	3.54
8 x .250	2.290	4.25
x .303	2.343	4.75
x .487	2.527	6.48
10 x .240	2.600	5.28
10 x .526	2.886	8.64
12 x .300	2.960	7.41
12 x .510	3.170	10.38

ALUMINUM STRUCTURAL CHANNELS

6061-T6 Aluminum Association

Size in Inches Web (Depth x Thickness)	Weight Per Ft.
3 x .130	1.135
.170	1.597
4 x .150	1.738
.190	2.332
5 x .150	2.212
.190	3.089
6 x .170	2.834
.210	4.030
7 x .170	3.21
8 x .190	4.147
.250	5.789
10 x .250	6.136
.310	8.360

ALUMINUM UNEQUAL ANGLES

6061-T6 Structural

Size in Inches			Weight Per Ft.
1 1/2 x	1 1/4 x	1/8	.39
	x	3/16	.57
	x	1/4	.74
1 3/4 x	1 1/4 x	1/8	.42
	x	3/16	.62
	x	1/4	.81
2 x	1 1/2 x	1/8	.50
	x	3/16	.73
	x	1/4	.96
2 1/2 x	2 x	3/16	.96
	x	1/4	1.26
	x	5/16	1.55
3 x	2 x	3/16	1.07
	x	1/4	1.40
	x	3/8	2.05
3 x	2 1/2 x	1/4	1.54
3 1/2 x	2 1/2 x	1/4	1.68
4 x	3 x	1/4	1.99
	x	3/8	2.93
5 x	3 x	3/8	3.35
	x	1/2	4.40
6 x	4 x	3/8	4.24
	x	1/2	5.58

ALUMINUM STRUCTURAL CHANNELS

6061-T6 American Standard

Size in Inches Web (Depth x Thickness)	Flange Width Inches	Weight Per Ft.
3 x .170	1.410	1.42
x .258	1.498	1.73
x .356	1.596	2.07
4 x .180	1.580	1.85

COATED SHEETS (COILS)

GALVANIZED (G-90), GALVANNEALED, ALUMINIZED (TYPE I)

Gauge	Thickness (Minimum)		Est. Weight Per Sq. Ft. (Nominal)
	Decimal Inches		
10	.130		5.781
11	.115		5.156
12	.100		4.531
14	.071		3.281
16	.058		2.656
18	.047		2.156
20	.036		1.656
22	.030		1.406
24	.024		1.156
26	.019		.906

HOT ROLLED SHEETS (COILS)

COMMERCIAL QUALITY, DRY

Gauge	Thickness (Minimum)		Est. Weight Per Sq. Ft.
	Decimal Inches		
10	.134		5.63
11	.120		5.00
12	.105		4.38
14	.075		3.13
16	.060		2.50

COLD ROLLED SHEETS (COILS)

COMMERCIAL QUALITY, OILED

Thickness (Minimum)		Est. Weight Per Sq. Ft. (Nominal)
Gauge	Decimal Inches	
11	.1140	5.000
12	.099	4.375
14	.070	3.125
16	.055	2.500
18	.044	2.000
20	.033	1.500
22	.027	1.250
24	.021	1.000

PLATES

MILD STEEL, ABRASION RESISTING, T-I, S.T.A.R., AND COR-TEN

Thickness	Weight Per Sq. Ft.	Thickness	Weight Per Sq. Ft.
3/16"	7.66	2"	81.68
1/4"	10.21	2 1/4"	91.89
5/16"	12.76	2 1/2"	102.10
3/8"	15.32	2 3/4"	112.31
7/16"	17.87	3"	122.52
1/2"	20.42	3 1/4"	132.73
9/16"	22.97	3 1/2"	142.93
5/8"	25.53	3 3/4"	153.14
3/4"	30.63	4"	163.35
7/8"	35.74	4 1/4"	173.56
1"	40.84	4 1/2"	183.77
1 1/8"	45.95	5"	204.19
1 1/4"	51.05	6"	245.03
1 3/8"	56.16	7"	285.87
1 1/2"	61.26	8"	326.71
1 5/8"	66.37	10"	408.38
1 3/4"	71.47		

ALUMINUM EQUAL ANGLES

6061-T6 Structural

Size in Inches		Weight Per Ft.
3/4 x 3/4	1/8	.20
1 x 1	1/8	.28
	x 3/16	.40
	x 1/4	.51
1 1/4 x 1 1/4	1/8	.35
	x 3/16	.51
	x 1/4	.66
1 1/2 x 1 1/2	1/8	.43
	x 3/16	.62
	x 1/4	.81
1 3/4 x 1 3/4	1/8	.51
	x 3/16	.74
	x 1/4	.96
2 x 2	1/8	.59
	x 3/16	.85
	x 1/4	1.11
	x 3/8	1.61
2 1/2 x 2 1/2	3/16	1.07
	x 1/4	1.40
	x 5/16	1.73
3 x 3	3/16	1.28
	x 1/4	1.68
	x 5/16	2.08
	x 3/8	2.47
3 1/2 x 3 1/2	5/16	2.46
4 x 4	1/4	2.28
	x 5/16	2.83
	x 3/8	3.38
5 x 5	3/8	4.28
	x 1/2	5.58
6 x 6	3/8	5.12
	x 1/2	6.75
8 x 8	1/2	9.14

ALUMINUM SQUARE BAR

2024-T351

Size in Inches	Weight Per Ft.	Size in Inches	Weight Per Ft.
3/8	.168	1 1/2	2.69
1/2	.299	1 3/4	3.66
5/8	.467	2	4.78
3/4	.672	2 1/2	7.50
7/8	.916	3	10.80
1	1.190	3 1/4	12.66
1 1/8	1.510	3 1/2	14.68
1 1/4	1.870	4	19.18

FLOOR PLATE

4-WAY—MEDIUM PATTERN

Gauge Thickness	Weight Per Sq. Ft.
3/16	8.71
1/4	11.26
5/16	13.81
3/8	16.37
1/2	21.47
3/4	31.69

ALUMINUM HEXAGON BAR

2024-T351

Size in Inches	Weight Per Ft.	Size in Inches	Weight Per Ft.
5/16	.101	1 1/4	1.62
3/8	.146	1 1/2	2.33
1/2	.259	1 3/4	3.18
5/8	.405	1 7/8	3.65
1 1/16	.491	2 1/4	5.25
3/4	.584	2 1/2	6.48
1	1.040	2 3/4	7.85
1 1/8	1.310	3 3/8	9.48

FLOOR SHEET

4-WAY—MEDIUM PATTERN

Gauge Thickness	Weight Per Sq. Ft.
11	6.16
12	5.25
14	3.75
16	3.00

ROUND TUBING

Size O.D.	Average Wall		Nominal I.D.	Weight Per Foot
	B.W. Ga.	Dec. Inches		
3/8"	20	.035	.305	.1271
	18	.049	.277	.1706
	17	.058	.259	.1964
1/2"	20	.035	.430	.1738
	19	.042	.416	.2054
	18	.049	.402	.2360
	16	.065	.370	.3020
5/8"	20	.035	.555	.2205
	18	.049	.527	.3014
	16	.065	.495	.3888
	14	.083	.459	.4805
	13	.095	.435	.5377
3/4"	20	.035	.680	.2673
	18	.049	.652	.3668
	16	.065	.620	.4755
	11	.120	.510	.8074
7/8"	20	.035	.085	.3140
	18	.049	.777	.4323
	16	.065	.745	.5623
	15	.072	.731	.6175
	14	.083	.709	.7021
1"	20	.035	.930	.3607
	18	.049	.902	.4977
	16	.065	.870	.6491
	14	.083	.834	.8129
	13	.095	.810	.9182
	11	.120	.760	1.1280
	9	.148	.704	1.3470
1 1/8"	20	.035	1.055	.4074
	18	.049	1.027	.5631
	16	.065	.995	.7359
	11	.120	.885	1.2880

ALUMINUM RECTANGULAR BAR

**6063-T5
6063-T52**

Size in Inches		Weight Per Ft.	Size in Inches		Weight Per Ft.	
1/8	× 1/2	.075	3/8	× 1	.450	
	× 5/8	.094		× 1 1/4	.564	
	× 3/4	.113		× 1 1/2	.675	
	× 1	.150		× 1 3/4	.771	
	× 1 1/4	.187	× 2	.900		
	× 1 1/2	.225	× 3	1.350		
	× 2	.300	× 4	1.760		
	× 3	.550	1/2	× 3/4	.450	
	× 4	.600		× 1	.600	
	3/16	× 1/2		.113	× 1 1/4	.750
× 3/4		.169	× 1 1/2	.900		
× 1		.226	× 2	1.200		
× 1 1/4		.282	× 2 1/2	1.500		
1/4	× 1 1/2	.338	× 3	1.800		
	× 2	.451	3/4	× 1 1/2	1.350	
	× 2 1/2	.564		× 2	1.800	
	3/8	× 2	.600	× 2 1/2	2.200	
		× 2 1/2	.750	× 3	2.640	
		× 3	.900	× 4	3.520	
		× 4	1.190	1	× 1 1/2	1.800
	3/8	× 1/2	.225		× 2	2.400
		× 5/8	.280		× 3	3.520
		× 3/4	.337			

ALUMINUM RECTANGULAR BAR CONTINUED

Size in Inches	Weight Per Ft.	Size in Inches	Weight Per Ft.
1/4 x 4	1.175	x 1 1/2	1.320
x 6	1.800	3/4 x 2	1.760
x 9	2.640	x 3	2.640
x 12	3.528	x 4	3.530
5/16 x 1	.367	x 6	5.290
3/8 x 1/2	.224	1 x 1 1/4	1.470
x 3/4	.330	x 1 1/2	1.760
x 1	.441	x 2	2.350
x 1 1/4	.551	x 2 1/2	2.940
x 1 1/2	.661	x 3	3.530
x 2	.881	x 4	4.700
x 3	1.320	x 6	7.050
x 4	1.760	1 1/4 x 2 1/2	3.670
x 6	2.640	x 3	4.400
1/2 x 3/4	.440	1 1/2 x 2	3.520
x 1	.587	x 2 1/2	4.410
x 1 1/2	.881	x 3	5.290
x 2	1.180	x 4	7.050
x 2 1/2	1.470	x 6	10.570
x 3	1.760	2 x 3	7.050
x 4	2.350	x 4	9.400
x 6	3.520	x 6	14.100
5/8 x 1 1/2	1.100	2 1/2 x 4	11.750
x 2	1.470	x 6	17.620
3/4 x 1	.881	3 x 4	14.100
x 1 1/4	1.100	x 6	21.150

ROUND TUBING CONTINUED

Size O.D.	Average Wall		Nominal I.D.	Weight Per Foot
	B.W. Ga.	Dec. Inches		
1 1/4"	20	.035	1.180	.4542
	18	.049	1.152	.6285
	16	.065	1.120	.8226
	14	.083	1.084	1.0340
	13	.095	1.060	1.1720
	12	.109	1.032	1.3280
	11	.120	1.010	1.4480
1 3/8"	7	.180	.890	2.0570
	20	.035	1.305	.5009
	18	.049	1.277	.6939
	16	.065	1.245	.9094
1 1/2"	11	.120	1.135	1.6080
	20	.035	1.430	.5476
	18	.049	1.402	.7593
	16	.065	1.370	.9962
	14	.083	1.334	1.2560
1 5/8"	11	.120	1.260	1.7690
	5	.220	1.060	3.0070
	20	.035	1.555	.5943
	18	.049	1.527	.8248
1 3/4"	16	.065	1.495	1.0830
	11	.120	1.385	1.9290
	20	.035	1.680	.6411
	18	.049	1.652	.8902
1 7/8"	16	.065	1.620	1.1700
	14	.083	1.584	1.4780
	11	.120	1.510	2.0890
	20	.035	1.805	.6878
	16	.065	1.745	1.2570
2"	14	.083	1.709	1.5890
	11	.120	1.635	2.2490
	20	.035	1.930	.7345

ROUND TUBING CONTINUED

Size O.D.	Average Wall		Nominal I.D.	Weight Per Foot
	B.W. Ga.	Dec. Inches		
2"	18	.049	1.902	1.0210
	16	.065	1.870	1.3430
	14	.083	1.834	1.6990
	13	.095	1.810	1.9330
	11	.120	1.760	2.4090
	9	.156	1.687	3.0720
2 1/8"	7	.180	1.640	3.4990
	18	.049	2.027	1.0860
2 1/4"	18	.049	2.152	1.1520
	16	.065	2.120	1.5170
	14	.083	2.084	1.9210
	11	.120	2.010	2.7300
	7	.180	1.875	3.9790
	2 3/8"	14	.083	2.209
9		.156	2.062	3.6970
7		.180	2.015	4.2200
2 1/2"	18	.049	2.402	1.2830
	16	.065	2.370	1.6900
	14	.083	2.334	2.1430
	11	.120	2.260	3.050
	7	.180	2.140	4.460
	2 3/4"	16	.065	2.620
14		.083	2.584	2.364
13		.095	2.560	2.694
11		.120	2.510	3.371
3"	18	.049	2.902	1.544
	16	.065	2.870	2.037
	14	.083	2.834	2.586
	13	.085	2.810	2.947
	11	.120	2.760	3.691
	7	.180	2.640	5.421
	3	.250	2.500	7.343

ALUMINUM ROUND BAR

**6061-T651
6061-T6511**

Size in Inches	Weight Per Ft.	Size in Inches	Weight Per Ft.
1/8	.014	1 7/8	3.24
3/16	.032	2	3.69
1/4	.058	2 1/8	4.17
5/16	.090	2 1/4	4.67
3/8	.130	2 1/2	5.77
7/16	.177	2 3/4	6.98
1/2	.231	3	8.30
9/16	.291	3 1/4	9.74
5/8	.360	3 1/2	11.30
3/4	.519	3 3/4"	12.98
7/8	.706	4"	14.76
1	.923	4 1/2"	18.68
1 1/8	1.170	5"	23.07
1 1/4	1.440	5 1/2"	28.00
1 3/8	1.740	6"	33.22
1 1/2	2.080	6 1/2"	38.98
1 5/8	2.440	7"	45.21
1 3/4	2.820	8"	59.04

ALUMINUM RECTANGULAR BAR

**6061-T6
6061-T6511**

Size in Inches	Weight Per Ft.	Size in Inches	Weight Per Ft.
1/8 x 3/4	.115	1/4 x 1/2	.147
x 1	.147	x 5/8	.187
x 1 1/2	.226	x 3/4	.221
x 2	.294	x 1	.294
3/16 x 3/4	.165	x 1 1/4	.367
x 1	.220	x 1 1/2	.441
x 1 1/2	.330	x 2	.599
x 2	.441	x 2 1/2	.750
		x 3	.900

CAST ALUMINUM TOOLING PLATE

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
1/4	3.660	3	43.632
5/16	4.550	3 1/2	50.904
3/8	5.480	4	58.176
1/2	7.290	5	72.720
5/8	9.100	6	87.264
3/4	10.908	7	101.808
1	14.544	8	116.352
1 1/4	18.180	9	130.896
1 1/2	21.816	10	145.440
1 3/4	25.452	12	174.528
2	29.088	14	203.616
2 1/2	36.36	15	218.160

ALUMINUM TREAD PLATE

6061-T6

Thickness In Inches	Weight Per Sq. Ft.
.100	1.60
.125	1.90
.188	2.79
.250	3.67
.375	5.43
.500	7.20

ALUMINUM TREAD BRITE

3003-H12

.100	1.57
.125	1.92
.188	2.82

ROUND TUBING CONTINUED

Size O.D.	Average Wall		Nominal I.D.	Weight Per Foot
	B.W. Ga.	Dec. Inches		
3 1/8"				
	16	.065	2.995	2.124
3 1/4"	16	.065	3.120	2.211
	13	.095	3.060	3.201
	11	.120	3.010	4.011
	7	.180	2.890	5.902
3 1/2"	16	.065	3.370	2.385
	14	.083	3.334	3.029
	11	.120	3.260	4.332
	7	.180	3.140	6.382
	3	.250	3.000	8.678
	16	.065	3.495	2.471
3 3/4"	16	.065	3.620	2.558
	4"			
4"	16	.065	3.870	2.732
	11	.120	3.760	4.973
	10	.134	3.732	5.533
	7	.180	3.640	7.344
	3	.250	3.500	10.010
4 1/4"	11	.120	4.010	5.293
4 1/2"	11	.120	4.260	5.613
	3	.250	4.000	11.350
5"	11	.120	4.760	6.254
	7	.180	4.640	9.266
	3	.250	4.500	12.680
5 1/2"	3	.250	5.000	14.020
6"	11	.120	5.760	7.536
	7	.180	5.640	11.190
	3	.250	5.500	15.350

SQUARE & RECTANGULAR TUBING

STEEL TUBING

20' to 24' Random Lengths

Size in Inches	BWG Wall Thickness	Weight Per Foot
1/2 x 1/2	16	.385
	14	.471
5/8 x 5/8	16	.495
	14	.612
3/4 x 3/4	20	.340
	18	.467
	16	.605
	14	.753
1 x 1	20	.459
	18	.634
	16	.827
	15	.920
	14	1.035
	12	1.320
1 1/4 x 1 1/4	11	1.436
	20	.578
	18	.800
	16	1.047
	14	1.317
	12	1.691
1 1/2 x 1	11	1.844
	20	.578
	16	1.047
	14	1.317
1 1/2 x 1 1/2	11	1.844
	20	.697
	18	.967
	16	1.268
1 3/4 x 1 3/4	14	1.599
	12	2.062
	11	2.252
1 5/8 x 1 5/8	11	2.456
1 3/4 x 1 3/4	16	1.489
	14	1.881

ALUMINUM PLATE

2024-T351

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
.250	3.636	1.250	18.180
.375	5.454	1.500	21.816
.500	7.272	2.000	29.088
.750	10.908	2.500	36.360
1.000	14.544	3.000	43.632

ALUMINUM PLATE

6061-T651

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
.250	3.528	1.500	21.168
.313	4.420	2.000	28.224
.375	5.292	2.500	35.280
.500	7.056	3.000	42.336
.625	8.820	4.000	56.448
.750	10.584	5.000	70.560
1.000	14.112	6.000	84.672
1.250	17.640		

ALUMINUM PLATE

5086-H116

Thickness In Inches	Weight Per Sq. Ft.
.250	3.456
.313	4.330
.375	5.184
.500	6.912

ALUMINUM COILED SHEET

5052-H32 & H34

Thickness in Inches	Size in Inches	Weight Per Linear Foot
.032	48	1.79
.040	36	1.68
	48	2.23
.050	48	2.79
.063	48	3.52
.080	48	4.47
.090	36	3.77
	48	5.03
	60	6.29
.100	48	5.59
.125	48	6.98
	60	8.73

ALUMINUM PLATE

3003-H14

Thickness in Inches	Weight Per Sq. Ft.
.250	3.564

ALUMINUM PLATE

5052-H32

Thickness in Inches	Weight Per Sq. Ft.
.250	3.492
.375	5.238

SQUARE & RECTANGULAR TUBING CONTINUED

Size in Inches	BWG Wall Thickness	Weight Per Foot
1 ³ / ₄ × 1 ³ / ₄	11	2.660
2 × 1	16	1.268
	14	1.600
2 × 1 ¹ / ₂	11	2.252
	16	1.489
2 × 2	14	1.882
	11	2.660
2 × 2	18	1.300
	16	1.710
2 ¹ / ₂ × 1	14	2.164
	11	3.067
2 ¹ / ₂ × 1	16	1.489
	14	1.881
2 ¹ / ₂ × 1 ¹ / ₂	11	2.660
	16	1.710
2 ¹ / ₂ × 1 ¹ / ₂	14	2.164
	11	3.067
2 ¹ / ₂ × 2 ¹ / ₂	16	2.152
	14	2.699
3 × 1	11	3.900
	16	1.710
3 × 1	14	2.164
	11	3.067
3 × 1 ¹ / ₂	16	1.931
	14	2.445
3 × 2	11	3.475
	16	2.152
3 × 2	14	2.728
	12	3.544
3 × 3	16	2.594
	14	3.292
3 ¹ / ₂ × 3 ¹ / ₂	14	3.856
	16	2.594
4 × 2	14	3.292
	14	3.860
4 × 3	14	3.860
4 × 4	14	4.320



SQUARE HOLLOW STRUCTURAL TUBING

STEEL TUBING

Stock Lengths of 20, 24, and 40 ft.

Sizes Inches	Weight Per Foot	Sizes Inches	Weight Per Foot
1 1/4 X 3/16	2.62	6 X 3/16	14.53
1 1/2 X 3/16	3.22	6 X 1/4	19.02
1 1/4 X 1/4	4.11	6 X 5/16	23.34
2 X .145	3.51	6 X 3/8	27.48
2 X 3/16	4.32	6 X 1/2	35.24
2 X 1/4	5.41	7 X 3/16	17.08
2 1/4 X 1/4	7.01	7 X 1/4	22.42
2 1/2 X 1/8	3.88	7 X 5/16	27.59
2 1/2 X 3/16	5.59	7 X 3/8	32.58
2 1/2 X 1/4	7.11	7 X 1/2	42.05
3 X 1/8	4.75	8 X 3/16	19.63
3 X 3/16	6.87	8 X 1/4	25.82
3 X 1/4	8.81	8 X 5/16	31.84
3 X .320	10.70	8 X 3/8	37.69
3 X .375	12.34	8 X 1/2	48.85
3 1/2 X 1/8	5.61	8 X 5/8	59.32
3 1/2 X 3/16	8.15	10 X 3/16	24.73
3 1/2 X 1/4	10.51	10 X 1/4	32.63
4 X 1/8	6.46	10 X 5/16	40.35
4 X 3/16	9.42	10 X 3/8	47.90
4 X 1/4	12.21	10 X 1/2	62.46
4 X 5/16	14.83	12 X 1/4	39.43
4 X 3/8	17.27	12 X 5/16	48.86
4 1/2 X 1/4	13.72	12 X 3/8	58.10
5 X 3/16	11.97	12 X 1/2	76.07
5 X 1/4	15.62	14 X 5/16	57.36
5 X 5/16	19.08	14 X 3/8	68.31
5 X 3/8	22.37	14 X 1/2	89.68
5 X 1/2	28.43	14 X 5/8	110.36
		16 X 5/16	65.87
		16 X 3/8	78.52
		16 X 1/2	103.30
		16 X 5/8	127.37

ALUMINUM FLAT SHEET

5086-H116

Thickness In Inches	Weight Per Sq. Ft.
.125	1.728
.188	2.600

ALUMINUM COILED SHEET

3003-H14

Thickness in Inches	Size in Inches	Weight Per Linear Foot
.020	36	.86
.025	36	1.07
	48	1.43
.032	36	1.37
	48	1.82
.040	36	1.71
	48	2.28
	60	2.85
.050	36	2.14
	48	2.85
.063	36	2.69
	48	3.59
	60	4.49
.080	36	3.42
	48	4.56
	60	5.70
.090	36	3.85
	48	5.13
	60	6.42
.100	36	4.28
	48	5.70
.125	36	5.34
	48	7.13
	60	8.91
.190	36	8.13

ALUMINUM FLAT SHEET

3003-H14

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
.020	.2850	.080	1.1405
.025	.3564	.090	1.2870
.032	.4564	.100	1.4256
.040	.5700	.125	1.7820
.050	.7128	.190	2.7100
.063	.8981		

ALUMINUM FLAT SHEET

5052-H32

5052-H34

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
.025	.3492	.080	1.1174
.032	.4470	.090	1.2571
.040	.5587	.100	1.3968
.050	.6984	.125	1.7460
.063	.8800	.190	2.6539

ALUMINUM FLAT SHEET

6061-T6

Thickness In Inches	Weight Per Sq. Ft.	Thickness In Inches	Weight Per Sq. Ft.
.025	.3528	.080	1.1290
.032	.4518	.090	1.2740
.040	.5645	.100	1.4112
.050	.7056	.125	1.7640
.063	.8892	.190	2.6813

RECTANGULAR HOLLOW STRUCTURAL TUBING

STEEL TUBING

Stock lengths of 20, 24 and 40 ft.

Sizes Inches		Weight Per Foot
2 x	1 1/2 x 3/16	4.32
3 x	1 1/2 x 3/16	4.94
3 x	2 x 1/8	3.90
	3/16	5.59
	1/4	7.11
4 x	2 x 1/8	4.75
	3/16	6.87
	1/4	8.81
4 x	3 x 1/8	5.61
	3/16	8.15
	1/4	10.51
5 x	2 x 1/8	5.61
	3/16	8.15
	1/4	10.51
5 x	2 1/2 x 3/16	8.75
5 x	3 x 1/8	6.46
	3/16	9.42
	1/4	12.21
	3/8	17.27
6 x	2 x 1/8	6.46
	3/16	9.42
	1/4	12.21
6 x	3 x 1/8	7.31
	3/16	10.70
	1/4	13.91
	3/8	19.82
6 x	4 x 3/16	11.97
	1/4	15.62
	5/16	19.08
	3/8	22.37
	1/2	28.43
7 x	4 x 5/16	21.21
	3/8	24.93
7 x	5 x 1/4	19.02
	3/8	27.48
	1/2	35.24

RECTANGULAR HOLLOW STRUCTURAL TUBING CONTINUED

Sizes Inches		Weight Per Foot
8 x	2 x 3/16	11.97
	1/4	15.62
8 x	3 x 3/16	13.25
	1/4	17.32
8 x	4 x 3/16	14.53
	1/4	19.02
	5/16	23.34
	3/8	27.48
	1/2	35.24
8 x	6 x 3/16	17.08
	1/4	22.42
	5/16	27.59
	3/8	32.58
	1/2	42.05
	10 x 2 x 1/4	19.02
10 x	3/8	27.48
	10 x 3 x 1/4	20.72
	5/16	25.47
	10 x 4 x 3/16	17.08
	1/4	22.42
	5/16	27.59
	3/8	32.58
	1/2	42.05
10 x	5 x 1/4	24.12
	5/16	29.72
10 x	6 x 1/4	25.82
	3/8	37.69
	1/2	48.85
10 x	8 x 1/4	29.23
12 x	2 x 3/16	17.08
	1/4	22.42
12 x	3 x 1/4	24.12
12 x	4 x 3/16	19.63
	1/4	25.82
	3/8	37.69
12 x	6 x 1/4	29.23
	3/8	42.79
12 x	8 x 3/8	47.90

STAINLESS STEEL ROUND BAR

**TYPE 303, 304, 316, 316 G & P, and
416 TG & P PUMP SHAFT QUALITY**

Size	Weight Per Ft.	Size	Weight Per Ft.
3/16	.094	1 1/16	7.600
1/4	.167	1 3/4	8.180
5/16	.261	1 7/8	9.390
3/8	.376	1 5/16	10.020
7/16	.511	2	10.680
1/2	.668	2 3/16	12.780
9/16	.845	2 1/4	13.520
5/8	1.040	2 7/16	15.870
3/4	1.500	2 1/2	16.690
7/8	2.040	2 5/8	18.400
1 3/16	1.760	2 3/4	20.190
1 5/16	2.350	2 5/16	23.040
1	2.670	3	24.030
1 1/16	3.010	3 1/4	28.210
1 1/8	3.380	3 1/2	32.710
1 3/16	3.770	4	42.730
1 5/16	4.600	4 1/2	54.080
1 1/4	4.170	5	66.760
1 3/8	5.050	6	96.130
1 7/16	5.520	7	130.900
1 1/2	6.010	8	170.900
1 5/8	7.050		

STAINLESS STEEL SQUARES

TYPE 316

Size	Weight Per Ft.	Size	Weight Per Ft.
3/16	.119	5/8	1.328
1/4	.213	3/4	1.913
5/16	.332	1	3.400
3/8	.478	1 1/2	7.650
1/2	.849	2	13.600

STAINLESS STEEL FLAT BAR

TYPE 304, 316 ELC

Hot Rolled, Annealed and Pickled

Size In Inches	Weight Per Ft.	Size In Inches	Weight Per Ft.
1/8 x 1/2	.213	1/4 x 2 1/2	2.325
1/8 x 3/4	.319	1/4 x 3	2.790
1/8 x 1	.425	1/4 x 3 1/2	3.255
1/8 x 1 1/2	.638	1/4 x 4	3.720
1/8 x 2	.850	3/8 x 1	1.374
1/8 x 3	1.275	3/8 x 1 1/2	2.061
3/16 x 1/2	.319	3/8 x 2	2.748
3/16 x 3/4	.478	3/8 x 3	4.122
3/16 x 1	.714	3/8 x 4	5.496
3/16 x 1 1/4	.893	3/8 x 6	8.244
3/16 x 1 1/2	1.071	1/2 x 1	1.805
3/16 x 1 3/4	1.250	1/2 x 1 1/4	2.256
3/16 x 2	1.428	1/2 x 1 1/2	2.707
3/16 x 2 1/2	1.785	1/2 x 2	3.610
3/16 x 3	2.142	1/2 x 3	5.414
1/4 x 1	.930	1/2 x 4	7.219
1/4 x 1 1/4	1.163	1/2 x 6	10.820
1/4 x 1 1/2	1.395	5/8 x 1	2.130
1/4 x 1 3/4	1.628	3/4 x 1	2.550
1/4 x 2	1.860	3/4 x 2	5.100


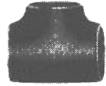


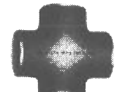






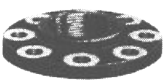





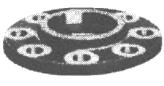



STAINLESS STEEL ANGLES

TYPE 304, 316ELC

Size	Weight Per Ft.	Size	Weight Per Ft.
3/4 x 3/4 x 1/8	.59	1 1/2 x 1 1/2 x 1/4	2.34
1 x 1 x 1/8	.80	2 x 2 x 3/16	2.44
1 x 1 x 3/16	1.16	2 x 2 1/4	3.19
1 x 1 x 1/4	1.49	2 1/2 x 2 1/2 x 1/4	4.10
1 1/4 x 1 1/4 x 3/16	1.48	3 x 3 x 1/4	4.90
1 1/4 x 1 1/4 x 1/4	1.92	3 x 3 x 3/8	7.20
1 1/2 x 1 1/2 x 1/8	1.23	4 x 4 x 1/4	6.60
1 1/2 x 1 1/2 x 3/16	1.80	4 x 4 x 3/8	9.80

PICTORIAL PRODUCT INDEX

Trinity Industries Fittings and Flange Group

 90° ELBOWS Long Radius	 TEES Straight and reducing	 SADDLES
 90° ELBOWS Long Tangent One End	 CROSSES Straight and reducing	 BLIND FLANGES
 90° REDUCING ELBOWS Long Radius	 CONCENTRIC REDUCERS	 LAP FLANGES
 3R ELBOWS 45° and 90°	 ECCENTRIC REDUCERS	 THREADED FLANGES
 90° ELBOWS Short Radius	 CAPS	 SLIP-ON FLANGES
 45° ELBOWS Long Radius	 LAP JOINT STUB ENDS	 SOCKET FLANGES
 180° RETURNS Long and Short Radius	 FULL ENCIRCLEMENT SADDLES	 WELDNECK FLANGES

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS
1/8	.405	10S	.049	.307	.1863
		40 40S Std.	.068	.269	.2447
		80 80S Ex. Hvy.	.095	.215	.3145
1/4	.540	10S	.065	.410	.3297
		40 40S Std.	.088	.364	.4248
		80 80S Ex. Hvy.	.119	.302	.5351
3/8	.675	10S	.065	.545	.4235
		40 40S Std.	.091	.493	.5676
		80 80S Ex. Hvy.	.126	.423	.7388
1/2	.840	5S	.065	.710	.5383
		10S	.083	.674	.6710
		40 40S Std.	.109	.622	.8510
		80 80S Ex. Hvy.	.147	.546	1.088
		160 XX Hvy.	.187	.466	1.304
3/4	1.050	5S	.065	.920	.6838
		40 40S Std.	.113	.824	1.131
		80 80S Ex. Hvy.	.154	.742	1.474
		160 XX Hvy.	.218	.614	1.937
		XX Hvy.	.308	.434	2.441
1	1.315	10S	.109	1.097	1.404
		40 40S Std.	.133	1.049	1.679
		80 80S Ex. Hvy.	.179	.957	2.172
		160 XX Hvy.	.250	.815	2.844
		XX Hvy.	.358	.599	3.659
1-1/4	1.660	5S	.065	1.530	1.107
		10S	.109	1.442	1.806
		40 40S Std.	.140	1.380	2.273
		80 80S Ex. Hvy.	.191	1.278	2.997
		160 XX Hvy.	.250	1.160	3.765
1-1/2	1.900	5S	.065	1.882	2.085
		10S	.109	1.682	2.085
		40 40S Std.	.145	1.610	2.718
		80 80S Ex. Hvy.	.200	1.500	3.631
		160 XX Hvy.	.281	1.338	4.859
2	2.375	5S	.065	2.245	1.604
		10S	.109	2.157	2.638
		40 40S Std.	.154	2.067	3.653
		80 80S Ex. Hvy.	.218	1.939	5.022
		160 XX Hvy.	.343	1.689	7.444
		XX Hvy.	.436	1.503	9.029

STAINLESS STEEL SHEET

TYPE 304, 316ELC, 2B FINISH

Gauge	Wt. Sq. Ft.
10 (.135)	5.6728
11 (.120)	5.0388
12 (.105)	4.4090
14 (.075)	3.1493
16 (.0595)	2.4984
18 (.048)	2.0155
20 (.0355)	1.4906
22 (.029)	1.2600
24 (.025)	1.008

STAINLESS STEEL PLATE

TYPE 304ELC, 316ELC

Hot Rolled, Annealed and Pickled

Gauge	Wt. Sq. Ft.
3/16	8.579
1/4	11.162
5/16	13.746
3/8	16.496
1/2	21.663
5/8	26.831
3/4	32.123
1	42.665
1 1/4	52.992
1 1/2	63.312
2	84.008

EXPANDED METAL GRATING (CARBON STEEL)

Style	Weight in lbs. per c.s.f.		Standard Sizes in Feet		Size of Openings in Inches		Center to Center of Bond in Inches		Size of Strands in Inches		Percent Open Area	Overall Thickness in Inches
	Plain	Galv.	Width	Length	Width	Length	Width	Length	Width	Thickness		
3 lb.	300	320	4-6	8-12	.938	3.438	1.333	5.33	.261	.183	73	.500
3.14 lb.	314	334	4-6	8-10	1.625	4.875	2.000	6.00	.308	.250	74	.562
4 lb.	400	430	4-5-6	8-10	.938	3.438	1.333	5.33	.297	.215	65	.625
4.27 lb.	427	457	4-6	8-10	1.000	2.875	1.412	4.00	.297	.250	58	.625
5 lb.	500	550	4-5-6	8-10	.813	3.375	1.333	5.33	.327	.250	52	.625
6.25 lb.	625	685	4-6	8	.813	3.375	1.412	5.33	.347	.312	55	.750
7 lb.	700	750	4-6	8	.813	3.375	1.412	5.33	.388	.312	60	.750

Above conforms with Military Specifications MIL-M-17194C (Metals Expanded Steel) and MYL-G 18015 (ships) (grating) and the deflection requirements of Federal Specifications RR-G-661-B.

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS
2-1/2	2.875	5S	.083	2.709	2.475
		10S	.120	2.635	3.531
		40 40S Std.	.203	2.469	5.793
		80 80S Ex. Hvy.	.276	2.323	7.661
		160 XX Hvy.	.375	2.125	10.01
			.552	1.771	13.69
3	3.500	10S	.120	3.260	4.332
		40 40S Std.	.216	3.068	7.576
		80 80S Ex. Hvy.	.300	2.900	10.25
		160 XX Hvy.	.438	2.624	14.32
					.600
3-1/2	4.000	5S	.083	3.834	3.472
		10S	.120	3.760	4.973
		40 40S Std.	.226	3.548	9.109
		80 80S Ex. Hvy.	.318	3.364	12.50
		5S	.083	4.334	3.915
4	4.500	10S	.120	4.260	5.613
		40 40S Std.	.237	4.026	10.79
		80 80S Ex. Hvy.	.337	3.826	14.98
		120 XX Hvy.	.438	3.624	19.00
		160 XX Hvy.	.531	3.438	22.51
			.674	3.152	27.54
5	5.563	5S	.109	5.345	6.349
		10S	.134	5.295	7.770
		40 40S Std.	.258	5.047	14.62
		80 80S Ex. Hvy.	.375	4.813	20.78
		120 XX Hvy.	.500	4.563	27.04
			.625	4.313	32.96
			.750	4.063	38.55
6	6.625	5S	.109	6.407	7.585
		10S	.134	6.357	9.289
		40 40S Std.	.280	6.056	18.97
		80 80S Ex. Hvy.	.432	5.761	28.57
		120 XX Hvy.	.562	5.491	36.39
			.718	5.189	45.30
			.864	4.897	53.16
6 (cont.)	6.625	5S	.109	6.407	9.914
		10S	.148	8.329	13.40
		20	.250	8.125	22.36
		30	.277	8.071	24.70
		40 40S Std.	.322	7.981	28.55
8	8.625	60	.406	7.813	35.64
		80 80S Ex. Hvy.	.500	7.625	43.39

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS			
10	10.750	100	.593	7.439	50.89			
		120	.718	7.189	60.93			
		140	.812	7.001	67.76			
		160	XX Hvy.	.875	6.875	72.42		
				.906	6.813	74.69		
		12	12.750	55	.134	10.482	15.19	
				105	.165	10.420	18.70	
				20	.250	10.250	28.04	
				30	.307	10.136	34.24	
				40	40S Std.	.365	10.020	40.48
				60	Ex. Hvy.	.500	9.750	54.74
				80		.593	9.564	64.33
100				.718	9.224	76.93		
120				.843	9.064	89.20		
160	XX			1.000	8.750	104.1		
				1.125	8.500	115.7		
14	14.000			55	.165	12.420	22.18	
		105	.180	12.390	24.20			
		20	.250	12.250	33.38			
		30	.330	12.090	43.77			
		40	40S Std.	.375	12.000	49.56		
		60	80S Ex. Hvy.	.500	11.750	65.42		
		80		.562	11.626	73.16		
		100		.687	11.376	88.51		
		120		.843	11.064	107.2		
		140		1.000	10.750	125.5		
		160		1.125	10.500	139.7		
		16	16.000	10	.250	13.500	36.71	
20	.312			13.376	45.68			
30	Std.			.375	13.250	54.57		
40				.438	13.124	63.37		
60	Ex. Hvy.			.500	13.000	72.09		
				.593	12.814	84.91		
80				.750	12.500	106.1		
100				.937	12.126	130.7		
120				1.093	11.814	150.7		
140				1.250	11.500	170.2		
160				1.406	11.188	189.1		
16	16.000			10	.250	15.500	42.05	
		20	.312	15.376	52.36			
		30	Std.	.375	15.250	62.58		

FLATTENED EXPANDED METAL (CARBON STEEL)

Style	Weight in lbs. per c.s.f.		Standard Sizes in Feet		Size of Openings in Inches		Center to Center of Bond in Inches		Size of Strands in Inches		Percent Open Area	Overall Thickness in Inches
	Plain	Galv.	Width	Length	Width	Length	Width	Length	Width	Thickness		
3/16" - #24	48				.085	.459	.200	.52	.057	.019	41	.019
3/16" - #22	60				.085	.459	.200	.52	.057	.024	40	.024
3/16" - #20	72				.085	.459	.200	.52	.057	.029	39	.029
1/4" - #20	83	124	4	8	.094	.688	.255	1.03	.086	.030	47	.030
1/4" - #18	111	165	4	8	.094	.688	.255	1.03	.086	.040	40	.040
1/2" - #20	40	51	4	8	.375	1.000	.500	1.26	.070	.029	72	.029
1/2" - #18	66	88	3-4-6	8-10	.281	1.000	.500	1.26	.109	.039	69	.039
1/2" - #16	82	100	3-4-6	8-10	.250	1.000	.500	1.26	.103	.050	60	.050
1/2" - #13	140	162	3-4-6	8-10	.250	1.000	.500	1.26	.122	.070	57	.070
3/4" - #16	51	61	3-4-6	8-10	.750	1.750	.923	2.10	.115	.048	75	.048
3/4" - #14	63	75	3-4-6	8-10	.688	1.813	.923	2.12	.119	.061	70	.061
3/4" - #13	75	86	3-4-6	8-10	.688	1.782	.923	2.10	.119	.070	73	.070
3/4" - #9	171	186	3-4-6	8-10-12	.563	1.688	.923	2.12	.164	.120	63	.120
1" - #16	41	50	4	8	.875	2.230	1.090	2.56	.115	.048	77	.048
1 1/2" - #16	38	44	4	8	1.063	2.750	1.330	3.20	.123	.048	82	.048
1 1/2" - #14	46	56	3-4-6	8	1.063	2.750	1.330	3.20	.138	.060	80	.060
1 1/2" - #13	57	68	3-4-6	8	1.063	2.750	1.330	3.20	.138	.070	80	.070
1 1/2" - #9	111	128	3-4-6	8-10-12	1.000	2.563	1.330	3.20	.175	.110	77	.110

REGULAR EXPANDED METAL (CARBON STEEL)

Style	Weight in lbs. per C.S.F.		Standard Sizes in Feet		Size of Openings in Inches		Center to Center of Bond in Inches		Size of Strands in Inches		Percent Open Area	Overall Thickness in Inches
	Plain	Galv	Width	Length	Width	Length	Width	Length	Width	Thick		
3/16" #24	50		.166	.437	.200	.50	.050	.024	63	.086		
3/16" #22	62		.166	.437	.200	.50	.050	.030	60	.088		
3/16" #20	75		.166	.437	.200	.50	.050	.036	57	.090		
1/4" #20	86	129	4	8	.172	.719	.255	1.00	.073	.036	45	.125
1/4" #18	114	171	4	8	.172	.719	.255	1.00	.073	.048	43	.125
1/2" #20	43	59	4	8	.438	.938	.500	1.20	.072	.036	80	.124
1/2" #18	70	85	4-6	8-10	.438	.938	.500	1.20	.088	.046	77	.155
1/2" #16	86	97	4-6	8-10	.375	.938	.500	1.20	.086	.060	71	.157
1/2" #13	147	173	4-6	8-10	.313	.938	.500	1.20	.096	.092	58	.182
3/4" #16	54	65	4-6	8-10	.813	1.750	.923	2.00	.099	.060	85	.186
3/4" #13	80	92	4-6	8-10	.750	1.688	.923	2.00	.096	.092	78	.195
3/4" #10	120	136	4-6	8-10	.750	1.625	.923	2.00	.144	.092	77	.282
3/4" #9	180	195	4-6	8-10-12	.688	1.563	.923	2.00	.148	.134	66	.300
1" #16	44	51	4	8	1.000	2.063	1.090	2.40	.096	.060	86	.182
1 1/2" #18	20	25	4	8	1.313	2.625	1.330	3.00	.067	.048	93	.140
1 1/2" #16	40	48	4	8-10-12	1.250	2.625	1.330	3.00	.107	.060	89	.211
1 1/2" #13	60	68	4-6	8-10-12	1.188	2.500	1.330	3.00	.104	.092	86	.215
1 1/2" #10	79	89	4-6	8-10	1.188	2.500	1.330	3.00	.137	.092	85	.289
1 1/2" #9	120	131	4-6	8-10-12	1.125	2.375	1.330	3.00	.142	.134	75	.295
1 1/2" #6	250	273	4-6	8-10-12	1.000	2.313	1.330	3.00	.201	.198	63	.425
2" #10	68	75			1.625	3.438	1.850	4.00	.164	.092	86	.312
2" #9	90	102			1.563	3.375	1.850	4.00	.149	.134	86	.325

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS	
16 (cont.)		40	Ex. Hvy.	.500	15.000	82.77
		60		.656	14.688	107.5
		80		.843	14.314	136.5
		100		1.031	13.938	164.8
		120		1.218	13.564	192.3
		140		1.438	13.124	223.5
		160		1.593	12.814	245.1
18	18.000	10		.250	17.500	47.39
		20		.312	17.376	59.03
		30	Std.	.375	17.250	70.59
		40		.438	17.124	82.06
		60	Ex. Hvy.	.500	17.000	93.45
		80		.562	16.876	104.8
		100		.750	16.500	138.2
		120		.937	16.126	170.8
		140		1.156	15.688	208.0
		160		1.375	15.250	244.1
20	20.000	10		1.562	14.876	274.2
		20		1.781	14.438	308.5
		30	Std.	.250	19.500	52.73
		40	Ex. Hvy.	.375	19.250	78.60
		60		.500	19.000	104.1
		80		.593	18.814	122.9
		100		.812	18.376	166.4
		120		1.031	17.938	208.9
		140		1.281	17.438	256.1

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS	
20 (cont.)	120		1.500	17.000	296.4	
	140		1.750	16.500	341.1	
	160		1.968	16.064	379.0	
24	24.000	10	.250	23.500	63.41	
		20	Std.	.375	23.250	94.62
			Ex. Hvy.	.500	23.000	125.5
		30		.562	22.876	140.8
		40		.687	22.626	171.2
		60		.968	22.064	238.1
		80		1.218	21.564	296.4
		100		1.531	20.938	367.4
		120		1.812	20.376	429.4
		140		2.062	19.876	483.1
		160		2.343	19.314	541.9
30	30.000	10	.312	29.376	98.9	
			Std.	.375	29.250	118.7
		20	Ex. Hvy.	.500	29.000	157.5
		30		.625	28.750	196.1
		36		.750	28.500	254.7
38	38.000		.312	35.250	142.7	
			Std.	.375	35.000	189.6
			Ex. Hvy.	.500	35.000	254.7
40	40.000		.312	41.500	125.58	
			Std.	.375	41.250	150.69
			Ex. Hvy.	.500	41.000	200.25
42	42.000		.312	47.750	132.25	
			Std.	.375	47.500	158.70
			Ex. Hvy.	.500	47.250	210.93
44	44.000		.312	53.750	138.91	
			Std.	.375	53.500	166.71
			Ex. Hvy.	.500	53.250	221.61

BAR GRATING—STEEL—TYPE 19W4

Bearing Bars, Inches	Wt. Sq. Ft.
3/4 x 3/16	5.5
1 x 1/8	4.9
1 x 3/16	7.1
1 1/4 x 1/8	6.0
1 1/4 x 3/16	8.7
1 1/4 x 1/4	11.4
1 1/2 x 1/8	7.1
1 1/2 x 3/16	10.3
1 1/2 x 1/4	13.5
1 3/4 x 3/16	12.1
2 x 3/16	13.8
2 1/4 x 3/16	14.8
2 1/2 x 3/16	17.0
	Aluminum
3/16 x 1	2.65
3/16 x 1 1/4	3.25
	Fiberglass
1" yellow	2.40
	Unagrate
1" gray	1.65
1 1/2" gray	1.90

BAR GRATING STAIR TREADS

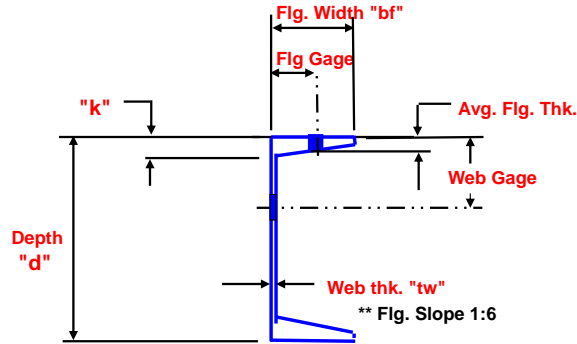
CHECKER PLATE NOSING

Bearing Bars	Width/Depth	Wt./Each
1 x 3/16	8 9/16 x 2'6"	17.98
1 x 3/16	9 3/4 x 2'6"	20.03
1 x 3/16	9 3/4 x 2'6"	Serr. 20.03
1 x 3/16	9 3/4 x 2'6"	Galv. 21.03
1 x 3/16	9 3/4 x 3'0"	23.65
1 x 3/16	9 3/4 x 3'0"	Serr. 23.65
1 x 3/16	10 15/16 x 2'6"	22.07
1 x 3/16	10 15/16 x 2'6"	Galv. 23.17
1 x 3/16	10 15/16 x 3'0"	26.05
1 1/4 x 3/16	9 3/4 x 2'6"	25.03
1 1/4 x 3/16	9 3/4 x 3'0"	29.56
1 1/4 x 3/16	10 15/16 x 2'6"	27.58
1 1/4 x 3/16	10 15/16 x 3'0"	32.56

1/28/2020

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**Channels
Standard**



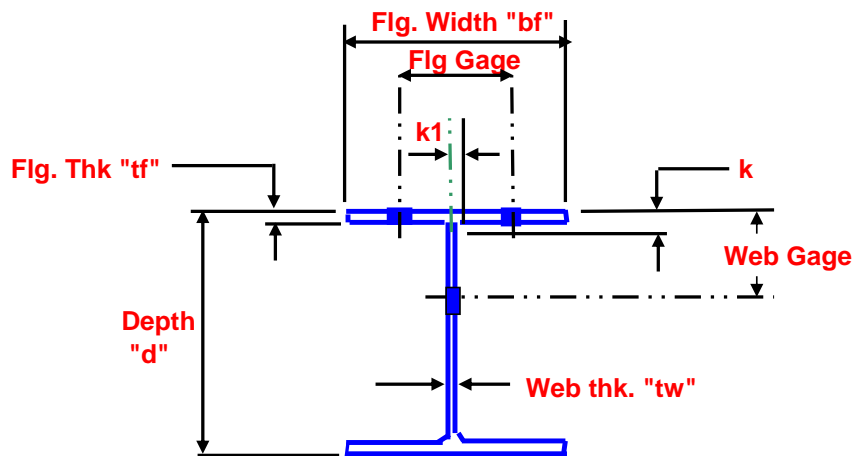
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Channel Size	Depth d	Web Thk. tw	Fig. Width bf	Avg. Fig. Thk. tf	k	Grip	Max. Bolt	Flange Bolt Gage	Web Bolt Gage	Sq. Ft.- Surf Area - per Ft	Sq.M.- Surf Area - per M	Weight Kg per M	Nominal Weight Lbs	X̄ in.	Shear Center eo in.	d/Af	Elastic Properties					
																	Axis - XX			Axis - YY		
																	Ix [in.4]	Sx [in.3]	rx [in.]	Iy [in.4]	Sy [in.3]	ry [in.]
C15x50	15	11/16	3 3/4	5/8	1 7/16	5/8	1	2 1/4	2 3/4	3.53	1.076	74.408	50	0.798	0.583	6.21	404	53.8	5.24	11	3.78	0.867
C15x40	15	1/2	3 1/2	5/8	1 7/16	5/8	1	2	2 3/4	3.48	1.060	59.527	40	0.777	0.767	6.56	349	46.5	5.44	9.23	3.37	0.886
C15x33.9	15	3/8	3 3/8	5/8	1 7/16	5/8	1	2	2 3/4	3.46	1.054	50.449	33.9	0.787	0.896	6.79	315	42	5.62	8.13	3.11	0.904
C12x30	12	1/2	3 1/8	1/2	1 1/8	1/2	7/8	1 3/4	2 1/2	2.88	0.876	44.645	30	0.674	0.618	7.55	162	27	4.29	5.14	2.06	0.763
C12x25	12	3/8	3	1/2	1 1/8	1/2	7/8	1 3/4	2 1/2	2.85	0.870	37.204	25	0.674	0.746	7.85	144	24.1	4.43	4.47	1.88	0.780
C12x20.7	12	5/16	3	1/2	1 1/8	1/2	7/8	1 3/4	2 1/2	2.86	0.873	30.805	20.7	0.698	0.870	8.13	129	21.5	4.61	3.88	1.73	0.799
C10x30	10	11/16	3	7/16	1	7/16	3/4	1 3/4	2 1/2	2.48	0.756	44.645	30	0.649	0.369	7.55	103	20.7	3.42	3.94	1.65	0.669
C10x25	10	1/2	2 7/8	7/16	1	7/16	3/4	1 3/4	2 1/2	2.47	0.752	37.204	25	0.617	0.494	7.94	91.2	18.2	3.52	3.36	1.48	0.676
C10x20	10	3/8	2 3/4	7/16	1	7/16	3/4	1 1/2	2 1/2	2.45	0.746	29.763	20	0.606	0.637	9.36	78.9	15.8	3.66	2.81	1.32	0.692
C10x15.3	10	1/4	2 5/8	7/16	1	7/16	3/4	1 1/2	2 1/2	2.43	0.740	22.769	15.3	0.634	0.796	8.81	67.4	13.5	3.87	2.28	1.16	0.713
C9x20	9	7/16	2 5/8	7/16	15/16	7/16	3/4	1 3/8	2 1/2	2.23	0.679	29.763	20	0.583	0.515	8.22	60.9	13.5	3.22	2.42	1.17	0.642
C9x15	9	5/16	2 1/2	7/16	15/16	7/16	3/4	1 3/8	2 1/2	2.21	0.673	22.322	15	0.586	0.682	8.76	51	11.3	3.4	1.93	1.01	0.661
C9x13.4	9	1/4	2 3/8	7/16	15/16	7/16	3/4	1 3/8	2 1/2	2.18	0.664	19.941	13.4	0.601	0.743	8.95	47.9	10.6	3.48	1.76	0.962	0.669
C8x18.75	8	1/2	2 1/2	3/8	15/16	3/8	3/4	1 1/2	2 1/2	2.02	0.616	27.903	18.75	0.565	0.431	8.12	44	11	3.82	1.98	1.01	0.599
C8x13.75	8	5/16	2 3/8	3/8	15/16	3/8	3/4	1 3/8	2 1/2	2.01	0.613	20.462	13.75	0.553	0.604	8.75	36.1	9.03	2.99	1.53	0.854	0.615
C8x11.5	8	1/4	2 1/4	3/8	15/16	3/8	3/4	1 3/8	2 1/2	1.98	0.603	17.114	11.5	0.571	0.697	9.08	32.6	8.14	3.11	1.32	0.781	0.625
C7x14.75	7	7/16	2 1/4	3/8	7/8	3/8	5/8	1 1/4	2 1/2	1.78	0.543	21.950	14.75	0.532	0.441	8.31	27.2	7.78	2.51	1.38	0.779	0.564
C7x12.25	7	5/16	2 1/4	3/8	7/8	3/8	5/8	1 1/4	2 1/2	1.80	0.549	18.230	12.25	0.525	0.538	8.71	24.2	6.93	2.6	1.17	0.703	0.571
C7x9.8	7	3/16	2 1/8	3/8	7/8	3/8	5/8	1 1/4	2 1/4	1.78	0.543	14.584	9.8	0.540	0.647	9.14	21.3	6.08	2.72	0.968	0.625	0.581
C6x13	6	7/16	2 1/8	5/16	13/16	5/16	5/8	1 3/8	2 1/4	1.58	0.483	19.346	13	0.514	0.380	8.10	17.4	5.8	2.13	1.05	0.642	0.525
C6x10.5	6	5/16	2	5/16	13/16	3/8	5/8	1 1/8	2 1/4	1.56	0.476	15.626	10.5	0.499	0.486	8.59	15.2	5.06	2.22	0.866	0.564	0.529
C6x8.2	6	3/16	1 7/8	5/16	13/16	5/16	5/8	1 1/8	2 1/4	1.54	0.470	12.203	8.2	0.511	0.599	9.10	13.1	4.38	2.34	0.693	0.492	0.537
C5x9	5	5/16	1 7/8	5/16	3/4	5/16	5/8	1 1/8	2 1/4	1.35	0.413	13.393	9	0.478	0.427	8.29	8.9	3.56	1.83	0.632	0.45	0.489
C5x6.7	5	3/16	1 3/4	5/16	3/4	-	-	-	2 1/4	1.33	0.406	9.971	6.7	0.484	0.552	8.93	7.49	3	1.95	0.479	0.378	0.493
C4x7.25	4	5/16	1 3/4	5/16	11/16	5/16	5/8	1	2	1.15	0.349	10.789	7.25	0.459	0.386	7.84	4.59	2.29	1.47	0.433	0.343	0.450
C4x5.4	4	3/16	1 5/8	5/16	11/16	-	-	-	2	1.13	0.343	8.036	5.4	0.457	0.502	8.52	3.85	1.93	1.56	0.319	0.283	0.449
C3x6	3	3/8	1 5/8	1/4	11/16	-	-	-	-	0.94	0.286	8.929	6	0.455	0.322	6.87	2.07	1.38	1.08	0.305	0.268	0.416
C3x5	3	1/4	1 1/2	1/4	11/16	-	-	-	-	0.92	0.279	7.441	5	0.438	0.392	7.32	1.85	1.24	1.12	0.247	0.233	0.410
C3x4.1	3	3/16	1 3/8	1/4	11/16	-	-	-	-	0.89	0.270	6.101	4.1	0.436	0.461	7.78	1.66	1.1	1.17	0.197	0.202	0.404

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HP Shapes

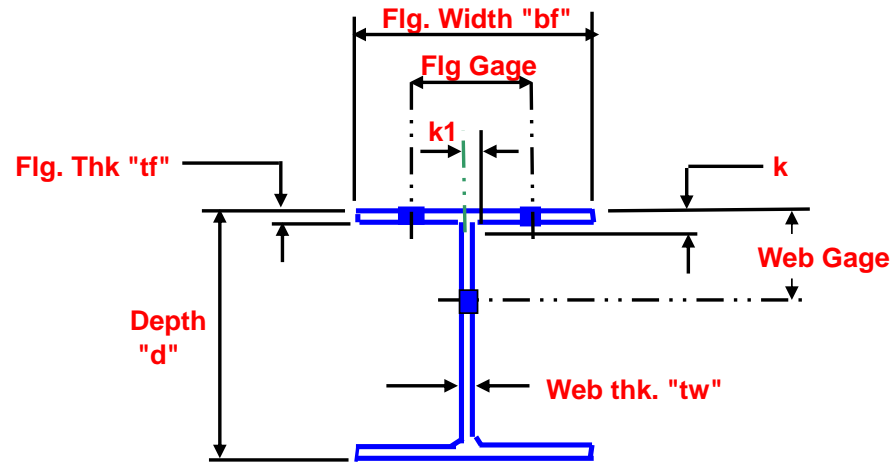


Beam Size	Depth d	Web Thk. tw	Fig. Width bf	Fig. Thk. tf	k	k1	Sq. Ft.- Surf Area - per Ft	Sq.M.- Surf Area - per M	Weight Kg per M
HP14x117	14 1/4	13/16	14 7/8	13/16	1 1/2	1	7.20	2.194	174.115
HP14x102	14	11/16	14 3/4	11/16	1 3/8	1	7.14	2.175	151.793
HP14x89	13 7/8	5/8	14 3/4	5/8	1 5/16	15/16	7.13	2.172	132.447
HP14x73	13 5/8	1/2	14 5/8	1/2	1 3/16	7/8	7.06	2.153	108.636
HP13x100	13 1/8	3/4	13 1/4	3/4	1 7/16	1	6.48	1.975	148.816
HP13x87	13	11/16	13 1/8	11/16	1 3/8	15/16	6.43	1.959	129.470
HP13x73	12 3/4	9/16	13	9/16	1 1/4	15/16	6.36	1.940	108.636
HP13x60	12 1/2	7/16	12 7/8	7/16	1 1/8	7/8	6.30	1.921	89.290
HP12x84	12 1/4	11/16	12 1/4	11/16	1 3/8	1	6.01	1.832	125.006
HP12x74	12 1/8	5/8	12 1/4	5/8	1 5/16	15/16	6.00	1.829	110.124
HP12x63	12	1/2	12 1/8	1/2	1 1/4	7/8	5.96	1.816	93.754
HP12x53	11 3/4	7/16	12	7/16	1 1/8	7/8	5.89	1.794	78.873
HP10x57	10	9/16	10 1/4	9/16	1 3/16	13/16	4.99	1.521	84.825
HP10x42	9 3/4	7/16	10 1/8	7/16	1 1/16	3/4	4.93	1.502	62.503
HP8x36	8	7/16	8 1/8	7/16	15/16	5/8	3.97	1.210	53.574

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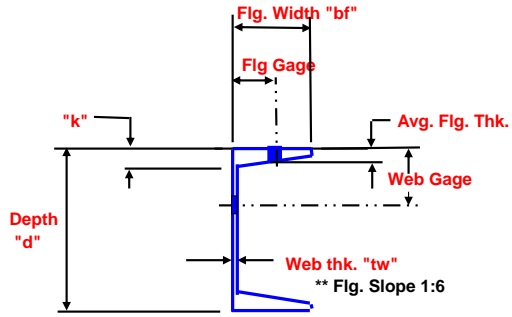
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M Shapes



Beam Size	Depth d	Web Thk. tw	Fig. Width bf	Fig. Thk. tf	k	Max Bolt	Flange Bolt Gage	Web Bolt Gage	Sq. Ft.- Surf Area - per Ft	Sq.M.- Surf Area - per M	Weight Kg per M
M14x18	14	3/16	4	1/4	5/8	3/4			3.64	1.108	26.787
M12x11.8	12	3/16	3 1/8	1/4	9/16	-			3.01	0.918	17.560
M12x10.8	12	3/16	3 1/8	1/4	1/2	1/2			3.01	0.918	16.072
M12x10	12	3/16	3 1/4	3/16	1/2				3.05	0.930	14.882
M10x9	10	3/16	2 3/4	3/16	9/16	-			2.55	0.778	13.393
M10x8	10	3/16	2 3/4	3/16	7/16	3/8			2.55	0.778	11.905
M10x7.5	10	1/8	2 3/4	3/16	7/16	3/8			2.56	0.781	11.161
M8x6.5	8	1/8	2 1/4	3/16	1/2	-			2.06	0.629	9.673
M6x4.4	6	1/8	1 7/8	3/16	3/16	-			1.60	0.489	6.548
M5x18.9	5	5/16	5	7/16	7/8	7/8			2.45	0.746	28.126

Channels
Miscellaneous

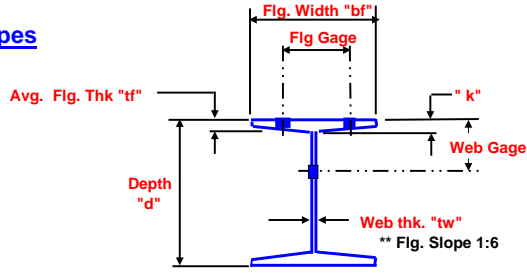


Channel Size	Depth d	Web Thk. tw	Flg. Width bf	Avg. Fig. Thk. tf	k	Grip	Max. Bolt	Flange Bolt Gage	Web Bolt Gage	Sq. Ft.- Surf Area - per Ft	Sq.M.- Surf Area - per M	Weight Kg per M	Nominal Weight Lbs	X in.	Shear Center eo in.	d/Af	Elastic Properties					
																	Axis - XX			Axis - YY		
																	Ix [in.4]	Sx [in.3]	rx [in.]	Iy [in.4]	Sy [in.3]	ry [in.]
MC18x58	18	11/16	4 1/4	5/8	1 3/8	5/8	1			4.20	1.280	86.314	58	0.862	0.695	6.86	676	75.1	6.29	17.8	5.32	1.020
MC18x51.9	18	5/8	4 1/8	5/8	1 3/8	5/8	1			4.17	1.270	77.236	51.9	0.858	0.797	7.02	627	69.7	6.41	16.4	5.07	1.040
MC18x45.8	18	1/2	4	5/8	1 3/8	5/8	1			4.15	1.264	68.158	45.8	0.866	0.909	7.20	578	64.3	6.56	15.1	4.82	1.060
MC18x42.7	18	7/16	4	5/8	1 3/8	5/8	1			4.16	1.267	63.545	42.7	0.877	0.969	7.29	554	61.6	6.64	14.4	4.69	1.070
MC13x50	13	13/16	4 3/8	5/8	1 3/8	5/8	1			3.39	1.032	74.408	50	0.974	0.815	4.83	314	48.4	4.62	16.5	4.79	1.060
MC13x40	13	9/16	4 1/8	5/8	1 3/8	9/16	1			3.34	1.019	59.527	40	0.963	1.030	5.09	273	42	4.82	13.7	4.26	1.080
MC13x35	13	7/16	4 1/8	5/8	1 3/8	9/16	1			3.36	1.026	52.086	35	0.980	1.160	5.23	252	38.8	4.95	12.3	3.99	1.100
MC13x31.8	13	3/8	4	5/8	1 3/8	9/16	1			3.33	1.016	47.324	31.8	1.000	1.240	5.33	239	36.8	5.06	11.4	3.81	1.110
MC12x50	12	13/16	4 1/8	11/16	1 5/16	11/16	1			3.13	0.953	74.408	50	1.050	0.741	4.15	269	44.9	4.28	17.4	5.65	1.090
MC12x45	12	11/16	4	11/16	1 5/16	11/16	1			3.10	0.946	66.967	45	1.040	0.844	4.27	252	42	4.36	15.8	5.33	1.090
MC12x40	12	9/16	3 7/8	11/16	1 5/16	11/16	1			3.08	0.940	59.527	40	1.040	0.952	4.41	234	39	4.46	14.3	5	1.100
MC12x35	12	7/16	3 3/4	11/16	1 5/16	11/16	1			3.06	0.933	52.086	35	1.050	1.070	4.55	216	36.1	4.59	12.7	4.67	1.110
MC12x31	12	3/8	3 5/8	11/16	1 5/16	11/16	1			3.03	0.924	46.133	31	1.080	1.180	4.67	203	33.8	4.71	11.3	4.39	1.120
MC12x10.6	12	3/16	1 1/2	5/16	11/16	-	-			2.42	0.737	15.775	10.6	0.269	0.284	25.90	55.4	9.23	4.22	0.382	0.31	0.351
MC10x41.1	10	13/16	4 3/8	9/16	1 1/4	9/16	7/8			2.90	0.883	61.164	41.1	1.090	0.864	4.02	158	31.5	3.61	15.8	4.88	1.140
MC10x33.6	10	9/16	4 1/8	9/16	1 1/4	9/16	7/8			2.85	0.870	50.002	33.6	1.080	1.060	4.24	139	27.8	3.75	13.2	4.38	1.160
MC10x28.5	10	7/16	4	9/16	1 1/4	9/16	7/8			2.83	0.864	42.413	28.5	1.120	1.210	4.40	127	25.3	3.89	11.4	4.02	1.170
MC10x25	10	3/8	3 3/8	9/16	1 1/4	9/16	7/8			2.64	0.803	37.204	25	0.953	1.030	5.11	110	22	3.87	7.35	3	1.000
MC10x22	10	5/16	3 3/8	9/16	1 1/4	9/16	7/8			2.65	0.806	32.740	22	0.990	1.130	5.25	103	20.5	3.99	6.5	2.8	1.000
MC10x8.4	10	3/16	1 1/2	1/4	11/16	-	-			2.09	0.638	12.501	8.4	0.284	0.332	23.80	32	6.4	3.61	0.328	0.27	0.365
MC10x6.5	10	1/8	1 1/8	3/16	7/16	-	-			1.99	0.606	9.673	6.5	0.180	0.167	43.80	22.1	4.42	3.4	0.112	0.118	0.242
MC9x25.4	9	7/16	3 1/2	9/16	1 3/16	9/16	7/8			2.50	0.762	37.799	25.4	0.970	0.986	4.68	88	19.6	3.43	7.65	3.02	1.010
MC9x23.9	9	3/8	3 1/2	9/16	1 3/16	9/16	7/8			2.51	0.765	35.567	23.9	0.981	1.040	4.74	85	18.9	3.48	7.22	2.93	1.010
MC8x22.8	8	7/16	3 1/2	1/2	1 3/16	1/2	7/8			2.34	0.714	33.930	22.8	1.010	1.040	4.35	63.8	16	3.09	7.07	2.84	1.030
MC8x21.4	8	3/8	3 1/2	1/2	1 3/16	1/2	7/8			2.35	0.718	31.847	21.4	1.020	1.090	4.42	61.6	15.4	3.13	6.64	2.74	1.030
MC8x20	8	3/8	3	1/2	1 1/8	1/2	7/8			2.19	0.667	29.763	20	0.840	0.843	5.29	54.5	13.6	3.05	4.47	2.05	0.872
MC8x18.7	8	3/8	3	1/2	1 3/16	1/2	7/8			2.19	0.667	27.829	18.7	0.849	0.889	5.37	52.5	13.1	3.09	4.2	1.97	0.874
MC8x8.5	8	3/16	1 7/8	5/16	3/4	5/16	5/8			1.88	0.572	12.649	8.5	0.428	0.542	13.70	23.3	5.83	3.05	0.628	0.434	0.501
MC7x22.7	7	1/2	3 5/8	1/2	1 1/8	1/2	7/8			2.21	0.673	33.781	22.7	1.040	1.010	3.89	47.5	13.6	2.67	7.29	2.85	1.050
MC7x19.1	7	3/8	3 1/2	1/2	1 1/8	1/2	7/8			2.19	0.667	28.424	19.1	1.080	1.150	4.06	43.2	12.3	2.77	6.11	2.57	1.040
MC6x18	6	3/8	3 1/2	1/2	1 1/16	1/2	7/8			2.02	0.616	26.787	18	1.120	1.170	3.60	29.7	9.91	2.37	5.93	2.48	1.060
MC6x15.3	6	5/16	3 1/2	3/8	7/8	3/8	7/8			2.05	0.625	22.769	15.3	1.050	1.160	4.45	25.4	8.47	2.38	4.97	2.03	1.050
MC6x16.3	6	3/8	3	1/2	1 1/16	1/2	3/4			1.85	0.565	24.257	16.3	0.927	0.930	4.21	26	8.68	2.33	3.82	1.84	0.892
MC6x15.1	6	5/16	3	1/2	1 1/16	1/2	3/4			1.86	0.568	22.471	15.1	0.940	0.982	4.29	25	8.32	2.37	3.51	1.75	0.889
MC6x12	6	5/16	2 1/2	3/8	13/16	3/8	5/8			1.72	0.524	17.858	12	0.704	0.725	6.41	18.7	6.24	2.3	1.87	1.04	0.728

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S Shapes

S24-S18
 S15-S8
 S7-S3



Beam Size	Depth d	Web Thk. tw	Fig. Width bf	*Fig. Thk. tf	k	Grip	Max Bolt	Flange Bolt Gage	Web Bolt Gage	Sq. Ft.- Surf Area - per Ft	Sq.M.- Surf Area - per M	Weight Kg per M	Nominal Weight Lbs	Compact Section Criteria				Elastic Properties						Torsional Constant J	Plastic Modulus				
														b/2tf	Fy'	d/tw	Fy''	Axis - XX			Axis - YY				Zx	Zy			
																		rx	ry	ry	Ix [in.4]	Sx [in.3]	rx [in.]				Iy [in.4]	Sy [in.3]	ry [in.]
S24x121	24	1/2	13/16	8	1 1/16	2	1 1/8	1		6.61	2.016	180.068	121	3.7	----	30.6	----	1.86	2.79	3160	258	9.43	83.3	20.70	1.53	12.8	306	36.2	
S24x106	24	1/2	5/8	7 7/8	1 1/16	2	1 1/8	1		6.60	2.013	157.745	106	3.6	----	39.5	42.3	1.86	2.86	2940	240	9.71	77.1	19.60	1.57	10.1	279	33.2	
S24x100	24		3/4	7 1/4	7/8	1 3/4	7/8	1	4	3	6.29	1.918	148.816	100	4.2	----	32.2	63.6	1.59	3.81	2390	199	9.02	47.7	13.20	1.27	7.58	240	23.9
S24x90	24		5/8	7 1/8	7/8	1 3/4	7/8	1	4	3	6.27	1.911	133.935	90	4.1	----	38.4	44.8	1.60	3.87	2250	187	9.21	44.9	12.60	1.30	6.04	222	22.3
S24x80	24		1/2	7	7/8	1 3/4	7/8	1			6.25	1.905	119.053	80	4	----	48.0	28.7	1.61	3.94	2100	175	9.47	42.2	12.10	1.34	4.88	204	20.7
S20x96	20	1/4	13/16	7 1/4	15/16	1 3/4	15/16	1			5.66	1.724	142.864	96	3.9	----	25.4	----	1.63	3.06	1670	165	7.71	50.2	13.90	1.33	8.39	198	24.9
S20x86	20	1/4	11/16	7	15/16	1 3/4	15/16	1			5.59	1.705	127.982	86	3.8	----	30.8	----	1.63	3.13	1580	155	7.89	46.8	13.30	1.36	6.64	183	23
S20x75	20		5/8	6 3/8	13/16	1 5/8	13/16	7/8	3 1/2	3	5.35	1.632	111.612	75	4	----	31.5	----	1.43	3.94	1280	128	7.62	29.8	9.32	1.16	4.59	153	16.7
S20x66	20		1/2	6 1/4	13/16	1 5/8	13/16	7/8			5.33	1.626	98.219	66	3.9	----	48.0	28.7	1.61	3.94	2100	175	9.47	42.2	12.10	1.34	4.88	204	20.7
S18x70	18		11/16	6 1/4	11/16	1 1/2	11/16	7/8	3 1/2	2 3/4	4.97	1.514	104.171	70	4.5	----	25.3	----	1.36	4.17	926	103	6.71	24.1	7.72	1.08	4.15	125	14.4
S18x54.7	18		7/16	6	11/16	1 1/2	11/16	7/8	3 1/2	2 3/4	4.93	1.502	81.403	54.7	4.3	----	39.0	43.3	1.37	4.34	804	89.4	7.07	20.8	6.94	1.14	2.37	105	12.1
S15x50	15		9/16	5 5/8	5/8	1 3/8	9/16	3/4	3 1/2	2 3/4	4.28	1.305	74.408	50	4.5	----	27.3	----	1.26	4.28	486	64.8	5.75	15.7	5.57	1.03	2.12	77.1	9.97
S15x42.9	15		7/16	5 1/2	5/8	1 3/8	9/16	3/4	3 1/2	2 3/4	4.26	1.299	63.842	42.9	4.4	----	36.5	49.6	1.26	4.38	447	59.6	5.95	14.4	5.23	1.07	1.54	69.3	9.02
S12x50	12		11/16	5 1/2	11/16	1 7/16	11/16	3/4	3	2 3/4	3.72	1.133	74.408	50	4.2	----	17.5	----	1.25	3.32	305	50.8	4.55	15.7	5.74	1.03	2.82	61.2	10.3
S12x40.8	12		7/16	5 1/4	11/16	1 7/16	5/8	3/4	3	2 3/4	3.68	1.121	60.717	40.8	4	----	26.0	----	1.24	3.46	272	45.4	4.77	13.6	5.16	1.06	1.76	53.1	8.85
S12x35	12		7/16	5 1/8	9/16	1 3/16	1/2	3/4	3	2 1/2	3.64	1.108	52.086	35	4.7	----	28.0	----	1.16	4.34	229	38.2	4.72	9.87	3.89	0.98	1.08	44.8	6.79
S12x31.8	12		3/8	5	9/16	1 3/16	1/2	3/4	3	2 1/2	3.60	1.099	47.324	31.8	4.6	----	34.3	56.2	1.16	4.41	218	36.4	4.83	9.36	3.74	1.00	0.9	42	6.4
S10x35	10		5/8	5	1/2	1 1/8	1/2	3/4	2 3/4	2 1/2	3.23	0.984	52.086	35	5	----	16.8	----	1.10	4.12	147	29.4	3.78	8.36	3.38	0.901	1.29	35.4	6.22
S10x25.4	10		5/16	4 5/8	1/2	1 1/8	1/2	3/4	2 3/4	2 1/2	3.16	0.962	37.799	25.4	4.7	----	32.2	63.9	1.09	4.37	124	24.7	4.07	6.79	2.91	0.954	0.6	28.4	4.96
S8x23	8		7/16	4 1/8	7/16	1	7/16	3/4	2 1/4	2 1/2	2.64	0.803	34.228	23	4.9	----	18.1	----	0.95	4.51	64.9	16.2	3.10	4.31	2.07	0.798	0.55	19.3	3.68
S8x18.4	8		1/4	4	7/16	1	7/16	3/4	2 1/4	2 1/2	2.63	0.800	27.382	18.4	4.7	----	29.5	----	0.94	4.70	57.6	14.4	3.26	3.73	1.86	0.831	0.34	16.5	3.16
S7x20	7		7/16	3 7/8	3/8	15/16	3/8	5/8			2.39	0.727	29.763	20	4.9	----	15.6	----	0.88	4.63	42.4	12.1	2.69	3.17	1.64	0.734	0.45	14.5	2.96
S7x15.3	7		1/4	3 5/8	3/8	15/16	3/8	5/8	2 1/4	2 1/2	2.33	0.711	22.769	15.3	4.7	----	27.8	----	0.87	4.88	36.7	10.5	2.86	2.64	1.44	0.766	0.24	12.1	2.44
S6x17.25	6		7/16	3 5/8	3/8	7/8	3/8	5/8	2	2 1/4	2.14	0.651	25.671	17.25	5	----	12.9	----	0.81	4.69	26.3	8.77	2.28	2.31	1.30	0.675	0.37	10.6	2.36
S6x12.5	6		1/4	3 3/8	3/8	7/8	3/8	-	-	2 1/4	2.08	0.635	18.602	12.5	4.6	----	25.9	----	0.79	5.02	22.1	7.37	2.45	1.82	1.09	0.705	0.17	8.47	1.85
S5x14.75	5		1/2	3 1/4	5/16	13/16	5/16	-	-	2 1/4	1.83	0.559	21.950	14.75	5	----	10.1	----	0.74	4.66	15.2	6.09	1.87	1.67	1.01	0.620	0.32	7.42	1.88
S5x10	5		3/16	3	5/16	13/16	5/16	-	-	2 1/4	1.80	0.549	14.882	10	4.6	----	23.4	----	0.72	5.10	12.3	4.92	2.05	1.22	0.81	0.643	0.11	5.67	1.37
S4x9.5	4		5/16	2 3/4	5/16	3/4	5/16	-	-	2	1.53	0.467	14.138	9.5	4.8	----	12.3	----	0.65	4.88	6.79	3.39	1.56	0.903	0.65	0.569	0.12	4.04	1.13
S4x7.7	4		3/16	2 5/8	5/16	3/4	5/16	-	-	2	1.51	0.460	11.459	7.7	4.5	----	20.7	----	0.64	5.13	6.08	3.04	1.64	0.764	0.57	0.581	0.07	3.51	0.964
S3x7.5	3		3/8	2 1/2	1/4	11/16	1/4	-	-	-	1.27	0.387	11.161	7.5	4.8	----	8.6	----	0.59	4.60	2.93	1.95	1.15	0.586	0.468	0.516	0.09	2.36	0.826
S3x5.7	3		3/16	2 3/8	1/4	11/16	1/4	-	-	-	1.26	0.384	8.483	5.7	4.5	----	17.6	----	0.57	4.95	2.52	1.68	1.23	0.455	0.390	0.522	0.04	1.95	0.653