



MILLARD METAL SERVICES INC.

7059 South 107th Street • Omaha, Nebraska 68128



**STAINLESS STEEL • ALUMINUM • STEEL
SPECIALTY PRODUCTS • FABRICATED ITEMS**

[402] 331-8011 • 1-800-662-4262 • FAX: [402] 331-8012

EMAIL: SALES@MILLARDMETALSERVICES.COM

WEBSITE: WWW.MILLARDMETALSERVICES.COM

CONTENTS

- **STAINLESS STEEL**
- **ALUMINUM**
- **GALVANIZED STEEL**
- **CARBON STEEL**
- **BRASS/BRONZE/COPPER**
- **OPTIGRIP (WALK SURFACE)**
- **FABRICATED ITEMS/SERVICES**



Millard Metal Services = Advantages & Value

Extensive Inventory

With our extensive inventory and fast delivery, Millard Metal Services can help keep your inventory low and provide you "what you need when you need it." And if we don't have it, we will try to get it for you.

"Cut-To-Size" Services

Millard Metal Services provides a "cut-to-size" service from our stock inventory, so that you can get the materials you need without having to clutter your racks with the "drop" (excess). Don't buy material you don't need. Provide us with your project's cut-list, and we can ship you the material cut and sheared to size. We also inventory our "drop" material for quick reference making it economical to fill your material needs when you don't need full lengths or need it cut-to-size.

Full Service

The knowledgeable sales staff at Millard Metal Services is here to service your metal material needs. We have years of experience working with a wide range of industries and understand our customer's needs when it comes to competitive pricing and quick service. Call or e-mail us for a quote.

Water Jet Services Available

MILLARD METAL SERVICES INC.

7059 South 107th Street • Omaha, Nebraska 68128



FAST SERVICE ON

- QUOTATIONS
- SHIPPING
ORDERS

WE PROVIDE

- QUALITY
PRODUCTS &
MATERIALS
- FRIENDLY,
EXPERIENCED
STAFF
- COMPETITIVE
PRICING
- FABICATION
SERVICES
- CUT TO SIZE
ORDERS

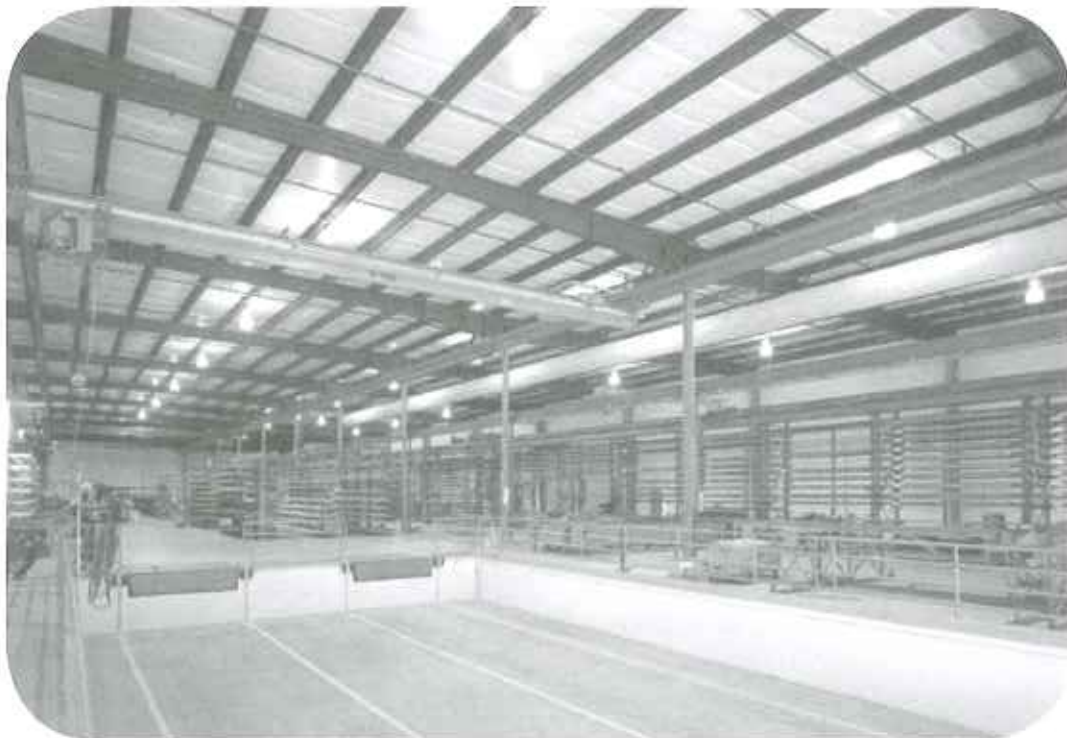
Millard Metal Services, Inc., and its affiliate, Millard Manufacturing Corp, have been supplying satisfied customers with stock size metals, fabricated metal products and other specialty items for over 35 years. These years of experience provide you with single call sourcing for all your metal needs. In addition, our central location in Omaha, Nebraska means fast, efficient, and affordable service anywhere within the continental United States.

The broad range of materials in our inventory is unsurpassed in our area. We stock stainless steel, aluminum, carbon steel, galvanized steel, brass, and copper in many shapes, sizes and grades.

At Millard Metal Services, we pride ourselves on service. We are committed to responding to your requests for quotations promptly and delivering your merchandise quickly. Most orders are shipped complete "same day" or within 24 hours from the time they are received.

Another important component of our service is to assist with locating hard-to-find items. Over the years many of our customers have found this time-saving feature to be invaluable.

We would like to thank all of our existing customers for placing your confidence in us. If you have not yet done business with Millard Metal Services, we invite you to contact us with your requirements. We welcome the opportunity to put our vast inventory, light fabrication expertise, and out-sourcing capabilities to work for you.



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HOW TO USE THIS CATALOG

The catalog listings have been divided into sections for your convenience. The key below indicates the prefix for each material/item category which precedes the page number for its particular section. (Example: page one of the "Stainless Steel" section is labeled S1, page one of the "Aluminum" is A1, etc.)

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- SHEARING
- PUNCHING
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- DRILLING
- TAPPING
- CUSTOM PERFORATING
- WELDING

Most Orders Filled and Shipped Within 24 Hours!

If You Don't See It... Ask For It... We Can Help You With Hard To Find Items

CONVERSION CHARTS

FRACTIONS TO DECIMALS TO MILLIMETERS

Fractions	Decimals	Millimeters
1/64	0.0156	0.3969
1/32	0.0312	0.7925
3/64	0.0469	1.1906
1/16	0.0625	1.5875
5/64	0.0781	1.9844
3/32	0.0938	2.3813
7/64	0.1094	2.7781
1/8	0.1250	3.1750
9/64	0.1406	3.5719
5/32	0.1562	3.9675
11/64	0.1719	4.3656
3/16	0.1875	4.7625
13/64	0.2031	5.1594
7/32	0.2188	5.5563
15/64	0.2344	5.9531
1/4	0.2500	6.3500
17/64	0.2656	6.7469
9/32	0.2812	7.1425
19/64	0.2969	7.5406
5/16	0.3125	7.9375
21/64	0.3281	8.3344
11/32	0.3438	8.7313
23/64	0.3594	9.1281
3/8	0.3750	9.5250
25/64	0.3906	9.9219
13/32	0.4062	10.3175
27/64	0.4219	10.7156
7/16	0.4375	11.1125
29/64	0.4531	11.5094
15/32	0.4688	11.9063
31/64	0.4844	12.3031
1/2	0.5000	12.7000

STAINLESS STEEL SHEET THICKNESSES AND TOLERANCES

Gauge No.	Decimal Equivalent	Tolerance Plus/Minus	Pounds/Square Ft.	
			300 Series	400 Series
7	0.1874	0.007	7.87	7.72
8	0.1650	0.007	6.93	6.80
10	0.1350	0.006	5.67	5.56
11	0.1200	0.005	5.04	4.94
12	0.1054	0.005	4.43	4.34
13	0.0900	0.004	3.78	3.70
14	0.0751	0.004	3.15	3.09
16	0.0595	0.003	2.50	2.45
18	0.0480	0.003	2.02	1.98
19	0.0420	0.003	1.76	1.73
20	0.0355	0.002	1.49	1.46
22	0.0293	0.002	1.23	1.21
24	0.0235	0.0015	.987	0.968
26	0.0178	0.0015	.748	0.733
28	0.0151	0.0015	.634	0.622

Fractions	Decimals	Millimeters
33/64	0.5156	13.0969
17/32	0.5312	13.4925
35/64	0.5469	13.8906
9/16	0.5625	14.2875
37/64	0.5781	14.6844
19/32	0.5938	15.0813
39/64	0.6094	15.4781
5/8	0.6250	15.8750
41/64	0.6406	16.2719
21/32	0.6562	16.6675
43/64	0.6719	17.0656
11/16	0.6875	17.4625
45/64	0.7031	17.8594
23/32	0.7188	18.2563
47/64	0.7344	18.6531
3/4	0.7500	19.0500
49/64	0.7656	19.4469
25/32	0.7812	19.8425
51/64	0.7969	20.2406
13/16	0.8125	20.6375
53/64	0.8281	21.0344
27/32	0.8438	21.4313
55/64	0.8594	21.8281
7/8	0.8750	22.2250
57/64	0.8906	22.6219
29/32	0.9062	23.0175
59/64	0.9219	23.4156
15/16	0.9375	23.8125
61/64	0.9531	24.2094
31/32	0.9688	24.6063
63/64	0.9844	25.0031
1	1.0000	25.4000

ALUMINUM SHEET THICKNESSES AND TOLERANCES

Thickness	Thickness Tolerances (Plus/Minus)		Thickness Tolerances (Plus/Minus)		
	3003-H14	5052-H32	36" Wide	48" Wide	60" Wide
.025	.356	.349	.022	0.0025	0.033
.032	.456	.447	.002	0.0025	0.0035
.040	.570	.559	.0025	0.003	0.005
.050	.713	.698	.003	0.004	0.006
.063	.898	.880	.003	0.004	0.006
.080	1.14	1.12	.0035	0.004	0.006
.090	1.28	1.29	.0035	0.004	0.006
.100	1.43	1.40	.004	0.005	0.007
.125	1.78	1.75	.0045	0.005	0.007
.190	2.71	2.65	.007	0.01	0.011
.250	3.53	3.49	.013	0.013	0.015

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GENERAL CHARACTERISTICS & APPLICATIONS

DEFINITION

Stainless steel is defined as a steel alloy containing at least 10% chromium, plus other elements – especially nickel. An entire family of alloys is available to satisfy a corresponding range of requirements.

ALLOYING ELEMENTS

CHROMIUM

Most important element of stainless steel. An addition of 10% chromium will form an oxide film (passive surface film) which renders the steel corrosion resistant. Chromium also increases resistance to scaling.

NICKEL

Second most important element. It increases ductility, corrosion resistance, resistance to scaling, and high temperature strength.

SILICON

Primarily increases resistance to scaling.

MANGANESE

Improves hot-working properties.

MOLYBDENUM

Increases corrosion and high-temperature strength.

SULFUR-PHOSPHORUS- SELENIUM

Increases machinability.

TITANIUM OR COLUMBIUM-TANTALUM

Stabilizes carbon and prevents chromium-carbide precipitation and subsequent intergranular corrosion.

FABRICATION CHARACTERISTICS

Type No.	UNS No.	Machinability	Drawing or Stamping	Welding
303	S30300	70%	Fairly Good	Fusion welding not recommended
304	S30400	45%	Very Good	Suitable for welding
304L	S30403	44%	Very Good	Suitable for welding
316	S31600	45%	Good	Suitable for welding
316L	S31603	45%	Good	Suitable for welding
321	S32100	38%	Good	Suitable for welding
416	S41600	85%	Fair	Poor, pre-heat 400-500°F, Anneal 1250°F after welding
440C	S44004	40%	Not Recommended	Not Recommended
17-4	S17400	40%		Suitable for welding

STAINLESS STEEL

TO ORDER CALL 1-800-662-4262



STAINLESS STEEL

STAINLESS STEEL SHEET TYPE 304 & T316 - 2B FINISH

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.	
	Width	Length			Type 304	Type 316
7 (.1874)	36	120	7.87	236.10	2478	XXX
7 (.1874)	48	96	7.87	251.88	2985	XXX
7 (.1874)	48	120	7.87	314.80	1001	2308
7 (.1874)	60	120	7.87	393.55	2730	XXX
8 (.165)	48	120	6.93	277.20	1002	XXX
10 (.135)	36	120	5.67	170.10	1003	XXX
10 (.135)	48	96	5.67	181.40	1004	XXX
10 (.135)	48	120	5.67	226.80	1005	2309
10 (.135)	60	120	5.67	283.50	1007	7251
11 (.120)	36	96	5.04	121.00	1008	XXX
11 (.120)	36	120	5.04	151.20	2475	6511
11 (.120)	48	96	5.04	161.30	2476	XXX
11 (.120)	48	120	5.04	201.60	1009	2310
11 (.120)	60	120	5.04	252.00	24460	XXX
12 (.105)	36	96	4.41	105.80	1010	XXX
12 (.105)	36	120	4.41	132.30	1011	XXX
12 (.105)	48	96	4.41	141.10	1012	XXX
12 (.105)	48	120	4.41	176.40	1013	2311
12 (.105)	60	120	4.41	220.50	1015	XXX
13 (.090)	48	120	3.78	151.20	3635	XXX
14 (.075)	36	96	3.15	75.60	1016	3284
14 (.075)	36	120	3.15	94.50	1017	4858
14 (.075)	48	96	3.15	100.80	1018	4233
14 (.075)	48	120	3.15	126.00	1019	2312
14 (.075)	60	120	3.15	157.50	1020	XXX

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.	
	Width	Length			Type 304	Type 316
16 (.060)	36	96	2.52	60.48	1021	3030
16 (.060)	36	120	2.52	75.60	1022	4036
16 (.060)	48	96	2.52	80.64	1023	3879
16 (.060)	48	120	2.52	100.80	1024	2313
16 (.060)	60	120	2.52	126.00	1025	XXX
18 (.048)	36	96	2.02	48.38	1026	XXX
18 (.048)	36	120	2.02	60.48	1027	3673
18 (.048)	48	96	2.02	64.51	1028	XXX
18 (.048)	48	120	2.02	80.64	1029	2314
18 (.048)	60	120	2.02	100.80	1030	XXX
20 (.036)	36	96	1.51	36.29	2473	XXX
20 (.036)	36	120	1.51	45.36	2474	XXX
20 (.036)	48	96	1.51	48.38	1031	XXX
20 (.036)	48	120	1.51	60.48	1032	2315
20 (.036)	60	120	1.51	75.60	24067	XXX
22 (.030)	36	120	1.26	37.80	2471	XXX
22 (.030)	48	96	1.26	40.32	1033	XXX
22 (.030)	48	120	1.26	50.40	1034	XXX
24 (.024)	36	120	1.01	30.24	2469	XXX
24 (.024)	48	96	1.01	32.26	1035	XXX
24 (.024)	48	120	1.01	40.32	1036	XXX
26 (.018)	36	120	0.76	22.68	2465	XXX
26 (.018)	48	120	0.76	30.24	2467	XXX
28 (.015)	36	120	0.63	18.90	2464	XXX

STAINLESS STEEL SHEET TYPE 304 - #4 POLISH FINISH

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
10 (.135)	48	120	5.67	226.80	2122
10 (.135)	60	120	5.67	283.50	20724
11 (.120)	48	120	5.04	201.60	2123
11 (.120)	60	120	5.04	252.00	21009
12 (.105)	48	96	4.41	141.10	23705
12 (.105)	48	120	4.41	176.40	2124
12 (.105)	60	120	4.41	220.50	11218
14 (.075)	48	96	3.15	100.80	10788
14 (.075)	48	120	3.15	126.00	1038
14 (.075)	60	120	3.15	157.50	2231
16 (.060)	48	96	2.52	80.64	25301

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
16 (.060)	48	120	2.52	100.80	1039
16 (.060)	60	120	2.52	126.00	2568
18 (.048)	48	96	2.02	64.51	1040
18 (.048)	48	120	2.02	80.64	2716
18 (.048)	60	120	2.02	100.80	12104
20 (.036)	48	96	1.51	48.38	26760
20 (.036)	48	120	1.51	60.48	1041
22 (.030)	48	96	1.26	40.32	1042
22 (.030)	48	120	1.26	50.40	2125
24 (.024)	48	96	1.01	32.26	25866
24 (.024)	48	120	1.01	40.32	2189

AVAILABLE WITH PROTECTIVE COVERING ON 1 OR 2 SIDES

STAINLESS STEEL

STAINLESS STEEL PLATE

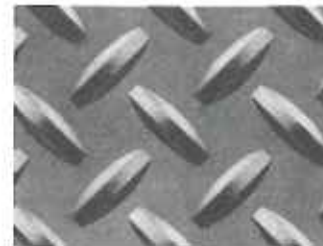
HOT ROLLED, ANNEALED & PICKLED ASTM A-240

Thickness Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	120	11.16	446.40	1114
5/16	48	120	13.75	549.84	2632
3/8	48	120	16.50	659.84	1115
1/2	48	120	21.66	866.40	1116

Thickness Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
5/8	48	120	26.83	1073.20	1117
3/4	48	120	32.12	1284.80	1118
1	48	120	42.67	1706.80	1119
Over 1	Call for information on sizes and availability				

STAINLESS STEEL FLOOR PLATE TYPE 304

Thickness Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/8	36	120	6.15	184.50	2599
3/16	48	120	8.70	348.00	2827
1/4	48	120	11.25	450.00	2828



STAINLESS STEEL EXPANDED METAL - FLATTENED

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/2 x #13.00	48	96	1.78	56.96	2584
1/2 x #16.00	48	96	0.86	27.52	1120
3/4 x #9.00	48	96	1.95	62.40	2566
3/4 x #13.00	48	96	0.86	27.52	2588



1/2" 13.00 FLATTENED
(APPROX. ACTUAL SIZE)



3/4" 9.00 FLATTENED
(APPROX. ACTUAL SIZE)

STAINLESS STEEL EXPANDED METAL - STANDARD

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/2 x 16.00	48	96	0.91	29.12	2926
3/4 x 9.00	48	96	1.8	57.60	18406
3/4 x 13.00	48	96	0.91	29.12	11300
1 1/2 x 9.00	48	96	1.37	43.84	13681



1/2" 13.00 STANDARD
(APPROX. ACTUAL SIZE)

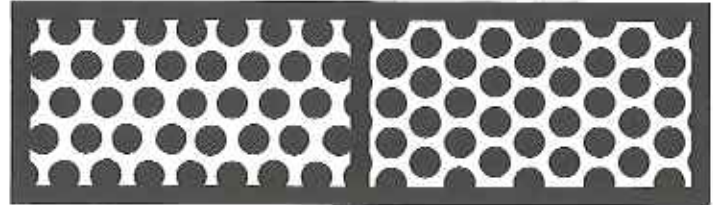


3/4" 9.00 STANDARD
(APPROX. ACTUAL SIZE)

STAINLESS STEEL

STAINLESS STEEL SHEET PERFORATED - STAGGERED

Size	Staggered	Thickness Gauge	Dimensions (inches)		Weight Per Sq. Ft.	MMS Sk. No.
			Width	Length		
0.125	3/16	16 (.060)	48	120	1.5	2607
0.188	5/16	16 (.060)	48	120	1.7	2527
0.250	3/8	16 (.060)	48	120	1.51	2625
0.375	9/16	16 (.060)	48	120	1.51	2627
0.375	9/16	11 (.120)	48	120	3.02	2628
0.500	11/16	11 (.120)	48	120	2.62	2630
1.000	1 1/4	11 (.120)	48	120	3.05	17028

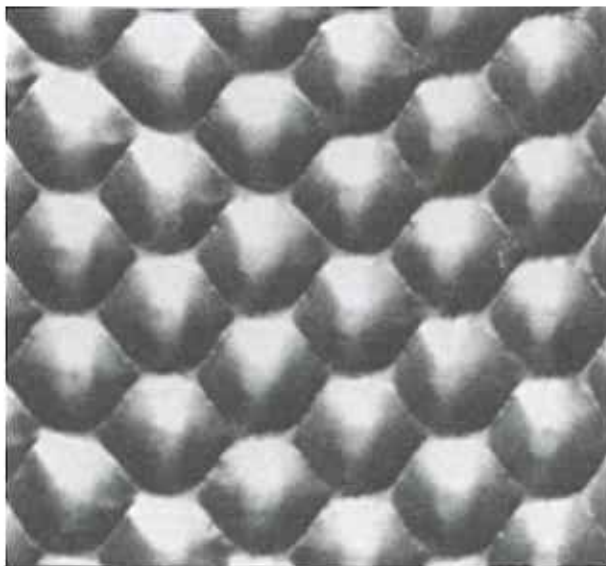


STAINLESS STEEL SHEET - TEXTURED

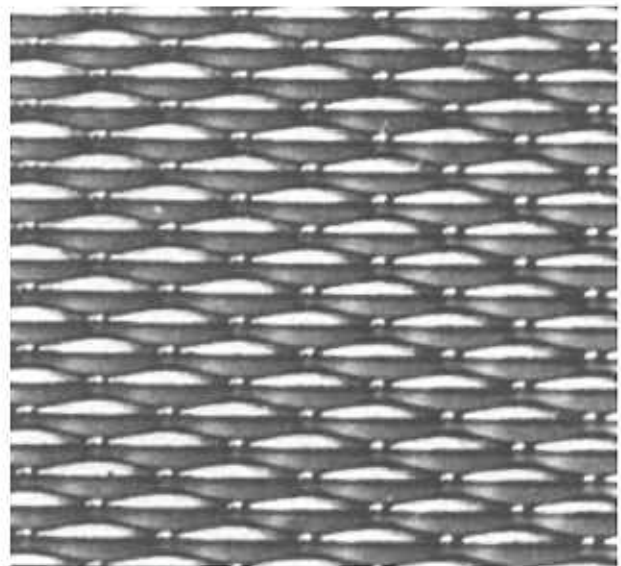
OXFORD T304 2B SHEFFIELD T304 2B

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
14 (.075)	48	96	3.15	100.8	14251
16 (.060)	48	120	2.52	100.8	2307

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
14 (.075)	48	96	2.5	80	2934



OXFORD



SHEFFIELD

STAINLESS STEEL

STAINLESS STEEL ANGLE T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4 x 3/4 x 1/8	0.59	11.80	1210
1 x 1 x 1/8	0.80	16.00	1211
1 x 1 x 3/16	1.16	23.20	1212
1 x 1 x 1/4	1.49	29.80	1213
1 1/4 x 1 1/4 x 1/8	1.01	20.20	1214
1 1/4 x 1 1/4 x 3/16	1.48	29.60	1215
1 1/4 x 1 1/4 x 1/4	1.92	38.40	1216
1 1/2 x 1 1/2 x 1/8	1.23	24.60	1217
1 1/2 x 1 1/2 x 3/16	1.80	36.00	1218
1 1/2 x 1 1/2 x 1/4	2.34	46.80	1219
2 x 2 x 1/8	1.65	33.00	1220
2 x 2 x 3/16	2.44	48.80	1221

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 x 2 x 1/4	3.19	63.80	1222
2 x 2 x 3/8	4.70	94.00	1223
2 1/2 x 2 1/2 x 3/16	3.07	61.40	1224
2 1/2 x 2 1/2 x 1/4	4.10	82.00	1225
3 x 3 x 1/4	4.90	98.00	1227
3 x 3 x 3/8	7.20	144.00	1228
3 1/2 x 3 1/2 x 1/4	5.80	116.00	1229
4 x 4 x 1/4	6.60	132.00	1230
4 x 4 x 3/8	9.80	196.00	1231
6 x 6 x 1/4	10.30	206.00	17159
6 x 6 x 3/8	14.90	298.00	18691

STAINLESS STEEL UNEQUAL LEG ANGLE T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3 x 1 1/2 x 1/4	3.51	70.20	12230
3 x 2 x 1/4	4.10	82.00	1226

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5 x 3 x 3/8	9.85	197.00	18086
6 x 4 x 1/4	9.21	184.20	18738

STAINLESS STEEL CHANNEL T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 x 1 x 1/4	3.15	63.00	2948
3 x 1 1/2 x 1/4	4.75	95.00	2950

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
4 x 1 3/4 x 1/4	6.69	133.80	2951
6 x 1.9 x .343	8.32	166.40	2953

STAINLESS STEEL FLAT SQUARE-EDGE T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/8 x 2	0.850	10.20	17817
1/4 x 3/4	0.638	7.65	17818
3/8 x 1 1/2	2.062	24.74	16218
3/8 x 2	2.750	33.00	16219
3/8 x 4	5.499	65.99	16222
1/2 x 1 1/2	2.708	32.50	16225

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/2 x 1 3/4	3.160	37.92	18832
1/2 x 2	3.611	43.33	16226
1/2 x 3	5.416	64.99	16228
1/2 x 3 1/2	6.319	75.83	16229
1/2 x 6	10.830	130.00	16232

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STAINLESS STEEL

STAINLESS STEEL FLAT T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/8 x 1/4	0.106	1.28	16504
1/8 x 3/8	0.159	1.91	10148
1/8 x 1/2	0.213	2.55	1140
1/8 x 5/8	0.266	3.19	1141
1/8 x 3/4	0.319	3.83	1142
1/8 x 1	0.425	5.1	1143
1/8 x 1 1/4	0.531	6.38	1144
1/8 x 1 1/2	0.638	7.65	1145
1/8 x 2	0.850	10.2	1146
1/8 x 2 1/2	1.063	12.76	1147
1/8 x 3	1.275	15.3	18598
1/8 x 4	1.700	20.4	19393
3/16 x 1/2	0.319	3.83	1148
3/16 x 3/4	0.478	5.74	20185
3/16 x 1	0.638	7.65	1150
3/16 x 1 1/4	0.797	9.56	1151
3/16 x 1 1/2	0.956	11.48	1152
3/16 x 1 3/4	1.116	13.39	1153
3/16 x 2	1.275	15.3	1154
3/16 x 2 1/2	1.594	19.13	1155
3/16 x 3	1.913	22.96	1156
3/16 x 4	2.550	30.6	12271
1/4 x 3/8	0.319	3.83	2216
1/4 x 1/2	0.425	5.1	1157
1/4 x 3/4	0.638	7.65	1158
1/4 x 1	0.850	10.2	1159
1/4 x 1 1/4	1.063	12.76	1160
1/4 x 1 1/2	1.275	15.3	1161
1/4 x 1 3/4	1.488	17.86	1162
1/4 x 2	1.700	20.4	1163
1/4 x 2 1/2	2.125	25.5	1164
1/4 x 3	2.550	30.6	1165
1/4 x 3 1/2	2.975	35.7	17318
1/4 x 4	3.400	40.8	1166
1/4 x 5	4.250	51	2217
1/4 x 6	5.100	61.2	1167
3/8 x 1/2	0.638	7.65	1168
3/8 x 3/4	0.956	11.48	1169
3/8 x 1	1.275	15.3	1170
3/8 x 1 1/4	1.594	19.13	1171

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8 x 1 1/2	2.060	24.74	1172
3/8 x 1 3/4	2.231	26.77	2218
3/8 x 2	2.750	33	1173
3/8 x 2 1/2	3.437	41.24	1174
3/8 x 3	4.124	49.49	1175
3/8 x 3 1/2	4.462	53.54	16720
3/8 x 4	5.500	65.99	1176
3/8 x 5	6.375	76.5	1177
3/8 x 6	8.250	98.99	1178
1/2 x 3/4	1.275	15.3	1179
1/2 x 1	1.700	20.4	1180
1/2 x 1 1/4	2.125	25.5	1181
1/2 x 1 1/2	2.708	32.5	1182
1/2 x 1 3/4	2.975	35.7	1183
1/2 x 2	3.610	43.33	1184
1/2 x 2 1/2	4.514	54.17	1185
1/2 x 3	5.416	64.99	1186
1/2 x 3 1/2	6.320	75.84	10227
1/2 x 4	7.220	86.66	1187
1/2 x 5	9.030	108.36	13275
1/2 x 6	10.830	129.96	1188
3/4 x 1	2.550	30.6	1190
3/4 x 1 1/4	3.188	38.26	1191
3/4 x 1 1/2	3.825	45.9	1192
3/4 x 1 3/4	4.460	53.52	17516
3/4 x 2	5.100	61.2	1193
3/4 x 2 1/2	6.375	76.5	1194
3/4 x 3	7.650	91.8	1195
3/4 x 3 1/2	8.930	107.16	3209
3/4 x 4	10.200	122.4	1196
3/4 x 5	12.750	153	1197
3/4 x 6	15.300	183.6	1198
1 x 1 1/2	5.100	61.2	1199
1 x 1 3/4	5.950	71.4	1200
1 x 2	6.800	81.6	1201
1 x 2 1/2	8.500	102	1202
1 x 3	10.200	122.4	1203
1 x 4	13.600	163.2	1204
1 x 6	20.400	244.8	1205

OTHER SIZES AVAILABLE UPON REQUEST CALL US FOR YOUR NEEDS

STAINLESS STEEL

STAINLESS STEEL ROUND T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5/32	0.065	0.78	13206
3/16	0.094	1.13	1054
1/4	0.167	2.00	1056
5/16	0.261	3.13	1057
3/8	0.376	4.51	1058
7/16	0.511	6.13	1059
1/2	0.668	8.01	1060
9/16	0.845	10.14	1062
5/8	1.043	12.52	1063
11/16	1.262	15.14	18985

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4	1.502	18.02	11697
7/8	2.045	24.54	19008
1	2.670	32.04	1067
1 1/4	4.173	50.08	14434
1 5/16	4.600	55.20	2937
1 3/8	5.049	60.59	17835
1 1/2	6.008	72.10	22216
1 5/8	7.052	84.62	18593
1 3/4	8.178	98.14	19322

STAINLESS STEEL ROUND T303

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5/64	0.016	0.1956	2262
3/32	0.024	0.282	1050
1/8	0.042	0.5004	1051
5/32	0.065	0.7824	1052
7/32	0.128	1.534	1055
9/32	0.407	4.889	2263
1/2	0.668	8.016	19468
5/8	1.043	12.516	17700
11/16	1.262	15.144	1064
3/4	1.502	18.02	1065
13/16	1.763	21.16	2265
7/8	2.045	24.54	1066
1	2.670	32.04	16117
1 3/16	3.766	45.19	1069
1 1/4	4.173	50.08	1070
1 3/8	5.049	60.59	1071
1 1/2	6.008	72.10	1073
1 5/8	7.052	84.62	1075
1 11/16	7.604	91.25	1076
1 3/4	8.178	98.136	1077

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 7/8	9.388	112.70	1078
1 15/16	10.020	120.20	1079
2	10.680	128.20	1080
2 1/8	12.060	144.72	11528
2 3/16	12.780	153.40	1082
2 1/4	13.520	162.20	1083
2 3/8	15.060	180.72	1085
2 7/16	15.870	190.40	1086
2 1/2	16.690	200.28	1087
2 3/4	20.190	242.30	1088
3	24.030	288.36	1090
3 1/4	28.210	338.52	13931
3 3/8	30.420	365.00	2922
3 1/2	32.710	392.50	1091
4	42.730	512.80	1093
4 1/2	54.080	648.96	1094
5	66.76	801.10	1095
5 1/2	80.780	969.36	16248
6	96.130	1153.60	1096
7	130.900	1570.80	19661

STAINLESS STEEL

STAINLESS STEEL ROUND T316

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.167	2.00	2484
5/16	0.261	3.13	2485
3/8	0.376	4.51	2486
1/2	0.668	8.01	2087
5/8	1.043	12.52	2489
3/4	1.502	18.02	2108
7/8	2.045	24.54	2491
1	2.670	32.04	2479

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/8	3.380	40.56	2497
1 3/16	3.766	45.19	2498
1 1/4	4.173	50.08	2109
1 5/16	4.600	55.20	2499
1 1/2	6.008	72.10	2212
1 3/4	8.178	98.14	2505
2	10.680	128.20	2508

STAINLESS STEEL ROUND GROUND-TO-SIZE T303

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
0.249	0.167	2.00	16344
0.312	0.261	3.13	16782
0.373	0.371	4.45	1100
0.498	0.668	8.01	3083
0.623	1.036	12.43	1101
0.748	1.494	17.93	1102
0.873	2.035	24.42	1103
0.998	2.659	31.91	1104
1.123	3.380	40.56	2106

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1.185	3.749	44.99	1105
1.248	4.159	49.91	1106
1.373	5.049	60.59	2107
1.435	5.498	65.98	1107
1.498	5.991	71.89	1108
1.749	8.170	98.14	16741
1.999	10.680	128.20	16457
2.499	16.690	200.28	18986

STAINLESS STEEL ROUND T17-4

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.167	2.004	2270
3/8	0.376	4.506	17304
3/4	1.502	18.02	20603
1	2.670	32.04	2248

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/4	4.173	50.08	15130
1 1/2	6.010	72.12	19581
1 7/8	9.390	112.68	19582
2	10.680	128.2	15131

STAINLESS STEEL

STAINLESS STEEL ROUND T416

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.167	2.00	2530
3/8	0.375	4.51	2247
1/2	0.668	8.01	2534

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4	1.502	18.02	2538
7/8	2.045	24.54	2540
1	2.670	32.04	2089

STAINLESS STEEL ROUND T303 METRIC SIZED - GROUND & POLISHED

Size In mm	R.L. in Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2	72	0.02	0.10	18300
4	72	0.07	0.40	18874
5	60	0.11	0.55	16481
6	72	0.13	0.80	16249
10	144	0.41	4.89	26152
12	144	0.60	7.15	17920
13	72	0.70	4.19	18529

Size In mm	R.L. in Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
15	144	0.93	11.17	19515
16	144	1.06	12.71	17922
20	144	1.66	19.92	16089
25	144	2.59	32.11	17641
30	144	3.72	44.69	17848
35	144	5.07	60.83	17849
40	144	6.62	79.45	17850

STAINLESS STEEL HALF ROUND T304

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/2	0.334	6.68	1109
5/8	0.521	10.42	1110

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4	0.750	15.00	1111

STAINLESS STEEL HEXAGON T303

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.184	2.21	11224
5/16	0.288	3.45	11973
3/8	0.414	4.97	19476
7/16	0.564	6.77	1137
1/2	0.736	8.83	10820
9/16	0.932	11.18	16057
5/8	1.150	13.80	17785

12 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
11/16	1.392	16.70	4026
3/4	1.656	19.87	1138
7/8	2.254	27.05	16599
1	2.944	35.33	15862
1 1/4	4.601	55.21	10647
1 1/2	6.625	79.50	2166

STAINLESS STEEL

SQUARE T303, T304 & T316

Size in Inches	Weight Per Ft.	Est. Weight Per R. L.	MMS Stock Number		
			Type 303	Type 304	Type 316
1/8	0.053	0.64	1121	xxx	xxx
3/16	0.120	1.43	1122	19513	xxx
1/4	0.213	2.55	1123	20221	14033
5/16	0.332	3.98	1124	xxx	xxx
3/8	0.478	5.74	1125	18857	xxx
7/16	0.651	7.81	1126	xxx	xxx
1/2	0.850	10.20	1127	16797	17598
9/16	1.076	12.91	1128	xxx	xxx

Size in Inches	Weight Per Ft.	Est. Weight Per R. L.	MMS Stock Number		
			Type 303	Type 304	Type 316
5/8	1.328	15.94	1129	xxx	xxx
3/4	1.913	22.96	1130	18625	17579
7/8	2.603	31.24	1131	xxx	xxx
1	3.400	40.80	1132	14328	14034
1 1/4	5.313	63.76	1133	xxx	xxx
1 1/2	7.650	91.80	1134	3524	14035
2	13.600	163.20	1135	1135	xxx
2 1/2	21.250	255.00	1136	xxx	17249

12 FT RANDOM LENGTH - TYPE 416 ALSO AVAILABLE UPON REQUEST

STAINLESS STEEL PIPE T304, T316

Size In Inches	Schedule	Wall Thickness	O.D.	I.D.	MMS Stock No.	
					Type 304	Type 316
1/8	40	0.068	0.405	0.269	1275	xxx
1/8	80	0.095	0.405	0.215	2802	xxx
1/4	40	0.088	0.540	0.364	1276	17265
1/4	80	0.119	0.540	0.302	2803	18163
3/8	10	0.065	0.675	0.545	13942	xxx
3/8	40	0.091	0.675	0.493	1277	2130
3/8	80	0.126	0.675	0.423	2804	16727
1/2	10	0.083	0.840	0.674	13944	xxx
1/2	40	0.109	0.840	0.622	1278	14032
1/2	80	0.147	0.840	0.546	1291	xxx
3/4	10	0.083	1.050	0.884	2127	xxx
3/4	40	0.113	1.050	0.824	1279	3931
3/4	80	0.154	1.050	0.742	1292	xxx
1	10	0.109	1.315	1.097	2935	xxx
1	40	0.133	1.315	1.049	1280	2131
1	80	0.179	1.315	0.957	1293	xxx
1 1/4	10	0.109	1.660	1.442	13948	xxx
1 1/4	40	0.140	1.660	1.380	1281	2129
1 1/4	80	0.191	1.660	1.278	1294	2132
1 1/2	10	0.109	1.900	1.682	13950	xxx
1 1/2	40	0.145	1.900	1.610	1282	xxx
1 1/2	80	0.200	1.900	1.500	1295	xxx
2	10	0.109	2.375	2.157	13952	xxx

20 FOOT RANDOM LENGTH

Size In Inches	Schedule	Wall Thickness	O.D.	I.D.	MMS Stock No.	
					Type 304	Type 316
2	40	0.154	2.375	2.067	1283	1284
2	80	0.218	2.375	1.939	1296	xxx
2 1/2	10	0.120	2.875	2.635	13954	2128
2 1/2	40	0.203	2.875	2.469	1285	xxx
2 1/2	80	0.276	2.875	2.323	10776	xxx
3	10	0.120	3.500	3.260	13957	xxx
3	40	0.216	3.500	3.068	1286	16123
3	80	0.300	3.500	2.900	2800	xxx
3 1/2	10	0.120	4.000	3.760	13959	xxx
3 1/2	40	0.226	4.000	4.026	1287	xxx
3 1/2	80	0.318	4.000	3.364	2801	xxx
4	10	0.120	4.500	4.260	2806	14441
4	40	0.237	4.500	4.026	1288	xxx
4	80	0.337	4.500	3.826	2902	xxx
5	10	0.134	5.563	5.295	2134	xxx
5	40	0.258	5.563	5.047	1289	xxx
5	80	0.375	5.563	4.813	2136	xxx
6	10	0.134	6.625	6.357	2137	xxx
6	40	0.280	6.625	6.065	1290	xxx
6	80	0.432	6.625	5.761	2133	xxx
8	40	0.322	8.625	7.981	2126	xxx
10	40	0.365	10.750	10.020	19654	xxx

LARGER SIZES AVAILABLE UPON REQUEST

STAINLESS STEEL

STAINLESS STEEL ROUND TUBE T304

Size In Inches	Wall Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.035	0.080	1.61	1254
1/4	0.065	0.128	2.56	19822
5/16	0.035	0.105	2.09	11328
3/8	0.049	0.277	5.54	15257
3/8	0.065	0.215	4.30	1255
7/16	0.065	0.261	5.22	2227
1/2	0.049	0.238	4.76	2454
1/2	0.065	0.302	6.04	2148
1/2	0.095	0.310	6.20	14519
1/2	0.120	0.492	9.83	17101
5/8	0.049	0.301	6.02	17679
5/8	0.065	0.389	7.78	2142
5/8	0.120	0.653	13.07	2944
5/8	0.188	0.875	17.50	17146
3/4	0.035	0.267	5.35	2149
3/4	0.049	0.304	6.09	5822
3/4	0.065	0.476	9.51	1256
3/4	0.120	0.807	16.14	15985
3/4	0.188	1.128	22.56	4800
7/8	0.035	0.314	6.28	17381
7/8	0.065	0.562	11.24	22321
7/8	0.120	0.635	12.70	10203
1	0.049	0.498	9.95	1257
1	0.065	0.649	12.98	1258
1	0.120	1.138	22.77	6498
1	0.188	1.646	32.91	5583
1	0.250	2.201	44.03	12094
1 1/4	0.065	0.823	16.45	2069
1 1/4	0.083	1.034	20.68	10010
1 1/4	0.120	1.462	29.24	10113
1 1/4	0.188	2.132	42.64	19210
1 1/4	0.250	2.680	53.60	17147
1 1/2	0.065	0.996	19.92	1259
1 1/2	0.083	1.006	20.10	14431
1 1/2	0.120	1.769	35.38	2156

20 FOOT RANDOM LENGTH

Size In Inches	Wall Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2	0.188	2.634	52.68	16508
1 1/2	0.250	3.338	66.76	2297
1 1/2	0.375	4.506	90.12	16263
1 3/4	0.065	1.170	23.40	17395
1 3/4	0.120	2.089	41.78	9180
2	0.065	1.343	26.86	1260
2	0.120	2.409	48.18	1261
2	0.188	3.638	72.76	1262
2	0.250	4.673	93.46	2152
2 1/4	0.120	2.730	54.60	2159
2 1/4	0.250	5.390	107.80	2919
2 1/4	0.375	7.509	150.18	22653
2 1/2	0.065	1.690	33.80	1263
2 1/2	0.120	3.050	61.00	3022
2 1/2	0.250	6.008	120.00	19505
2 1/2	0.375	8.511	170.22	17663
2 3/4	0.120	3.371	67.42	19574
3	0.065	2.037	40.74	1264
3	0.120	3.691	73.82	2154
3	0.188	5.646	112.92	3074
3	0.250	7.343	146.86	13225
3	0.375	10.510	210.20	17614
3	0.500	13.350	267.00	15656
3 1/4	0.250	8.010	160.20	19560
3 1/2	0.065	2.385	47.70	2140
3 1/2	0.250	8.678	173.56	19174
3 3/4	0.120	4.332	86.64	2157
4	0.065	2.757	55.15	2346
5	0.083	4.359	87.18	18721
5 1/2	0.500	26.700	534.00	18610
6	0.083	5.245	104.90	17499
6	0.109	5.650	113.00	12087
6	0.120	7.536	150.72	11327
8	0.120	7.760	155.20	3502

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STAINLESS STEEL

STAINLESS STEEL POLISHED ROUND TUBE T304

Size In Inches	Thickness Gauge	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1	16	0.65	12.98	2165
1.25	16	0.82	16.45	2139
1.5	16	1.00	19.92	1266
2	16	1.34	26.86	1267

Size In Inches	Thickness Gauge	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2.5	16	1.69	33.80	1268
3	16	2.04	40.74	1269
4	14	3.47	69.44	1270

20 FOOT RANDOM LENGTH

STAINLESS STEEL SQUARE TUBE T304

Size In Inches	Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8	16	0.274	5.480	2165
1/2	16	0.385	7.690	3436
3/4	16	0.606	12.110	1235
1	11	1.436	28.720	1236
1	16	0.826	16.520	1237
1 1/4	11	1.844	36.880	1238
1 1/4	16	1.048	20.960	1239
1 1/2	0.188	3.040	60.800	3437
1 1/2	11	2.255	45.100	1240
1 1/2	14	1.610	32.200	17831
1 1/2	16	1.269	25.380	1241
1 3/4	14	1.881	37.620	3834
2	0.25	5.410	108.200	2955
2	7	4.320	86.400	1243

Size In Inches	Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2	11	3.068	61.360	1244
2	14	2.164	43.280	16978
2	16	1.711	34.220	1245
2 1/2	0.25	7.110	142.200	11047
2 1/2	7	5.680	113.600	4125
2 1/2	11	3.884	77.680	2114
3	0.25	8.810	176.200	2113
3	7	6.870	127.400	1246
3	11	4.701	94.020	1247
3 1/2	0.25	10.510	210.200	19090
4	0.25	12.210	244.200	2116
4	7	9.420	188.400	3027
4	11	6.332	126.600	2598
6	0.25	19.020	380.400	2115
8	0.25	26.530	530.600	18552

20 FOOT RANDOM LENGTH

STAINLESS RECTANGULAR TUBE T304

Size In Inches	Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 2	11	2.25	45.04	2042
1 1/2 x 2	16	1.42	28.40	17844
1 1/2 x 3	11	3.50	70.00	16505
2 x 3	7	5.70	114.00	16854
2 x 3	11	3.88	77.68	2656

Size In Inches	Thickness	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 x 4	.25	10.00	200.00	9203
2 x 4	7	7.19	143.80	1252
2 x 4	11	4.70	94.00	1253
3 x 6	7	10.52	210.40	16448
4 x 6	7	11.90	238.00	16860

20 FOOT RANDOM LENGTH

STAINLESS STEEL

STAINLESS STEEL THREADED ROD

Size In Inches	Threads Per Inch	6 Foot Length	12 Foot Length
#6	32	18642	xxx
#8	32	23161	xxx
#10	24	23183	xxx
#10	32	16063	xxx
1/4	20	1382	10366
1/4	28	1383	xxx
5/16	18	1384	10368
5/16	24	1385	xxx
3/8	16	1386	16109
3/8	24	1387	xxx
7/16	14	1388	xxx
7/16	20	2731	xxx
1/2	13	1389	10369
1/2	20	1390	xxx
9/16	12	10912	xxx
5/8	11	1391	10370
5/8	18	4029	xxx
3/4	10	1392	10388
3/4	16	2169	xxx
7/8	9	1393	xxx
1	8	1394	10423
1	14	4055	xxx



STAINLESS STEEL GTS T303 w/KEYWAY



Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
0.498 x 1/8	0.668	8.01	17561
0.623 x 3/16	1.036	12.43	17562
0.748 x 3/16	1.494	17.93	17563
0.873 x 3/16	2.035	24.42	17564
0.998 x 1/4	2.659	31.91	2273
1.123 x 1/4	3.380	40.56	17783
1.185 x 1/4	3.749	44.99	13691
1.248 x 1/4	4.159	49.91	2274
1.373 x 5/16	5.049	60.59	17431
1.435 x 3/8	5.518	66.22	2275
1.498 x 3/8	6.008	72.10	2276



12 FOOT RANDOM LENGTH

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STAINLESS STEEL

STAINLESS STEEL CONTINUOUS HINGE



Size Open In Inches	Gauge Thickness	Pin Size	MMS Stock No.
1 1/16	19	0.093	2078
1 1/2	16	0.125	2079
2	14	0.250	2084
2	16	0.187	2302
2 1/2	14	0.250	2085
3	14	0.250	2086

6 FOOT LENGTH



CLOSED



OPEN

STAINLESS STEEL LINK CHAIN

Size	Alloy	MMS Stock No.
1/8	T316	4065
3/16	T316	10145
1/4	T316	4067
2 1/2	14	0,250
3	14	0,250

SOLD IN 1 FOOT INCREMENTS



GENERAL CHARACTERISTICS & APPLICATIONS

NON-HEAT-TREATABLE (COMMON) ALLOYS

- 1100** Commercially pure aluminum (1100) is more resistant to chemical attack and weathering than any of the alloys. 1100 is very easily worked, and is ductile enough to permit deep draws. Important applications include chemical processing equipment, light reflectors, air ducts, flue linings, tumblers, heat exchanger fin stock, etc.
- 3003** Stronger than 1100 but has the same good ductility. It is widely used for kitchenware and other applications which require good drawing characteristics. Applications include bottle and jar closures, chemical equipment, containers, mailboxes, window frames and hardware, mobile home and truck trailer panels, freezer liners and shelves, etc.
- 5052** Corrosion resistance is very good and it is readily formed in the intermediate tempers. Typical applications are aircraft gasoline tanks, storm shutters, refrigerator liners, screen frames, measuring spoons, utensils, electronic mounting plates and panels, ladders, etc.

HEAT-TREATABLE (STRONG) ALLOYS

- 2011** Free machining, fine chips, good formability.
- 2024** High strength, good machinability for aircraft and machined parts. Alclad 2024 in sheet form provides strength with maximum corrosion resistance.
- 6061** Engineering, household and architectural applications. Good weldability, corrosion resistance and strength after heat treatment.
- 6063**
- 7075** Aircraft and other applications where the highest strength is required. Cladding gives good corrosion resistance.

RELATIVE FABRICATION CHARACTERISTICS

A = Excellent
B = Good

C = Fair
D = Poor

Type	Forming	Machining	Welding Resistance	Welding Arc	Brazing	Soldering	Corrosion Resistance
1100-0	A	E	B	A	A	B	A
2011-T3	D	A	D	D	D	D	D
2024-T3	C	B	C	B	D	B	D
3003-H14	B	D	A	A	A	A	A
5052-H32	B	D	A	A	C	A	A
6061-T651	C	C	A	A	A	A	B
6063-T5	B	C	A	A	A	A	A
6063-T6	C	C	A	A	A	A	A
7075-T651	D	B	D	C	D	B	C

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ALUMINUM SHEET 3003-H14, 5052-H32 & 6061-T6

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.		
	Width	Length			3003-H14	5052-H32	6061-T6
0.025	36	96	0.35	8.38	2402	2358	xxx
0.032	36	96	0.45	10.73	2409	2359	xxx
0.032	48	120	0.45	17.88	1750	2360	xxx
0.032	48	144	0.45	21.46	2412	2361	2442
0.040	48	96	0.56	17.88	2416	2363	xxx
0.040	48	120	0.56	22.35	1751	2364	xxx
0.040	48	144	0.56	26.82	2417	2365	2443
0.050	36	120	0.70	20.95	2394	25875	xxx
0.050	48	96	0.70	22.35	2395	2354	xxx
0.050	48	120	0.70	27.94	2392	2352	25028
0.050	48	144	0.70	33.52	2396	2355	2444
0.050	60	144	0.70	41.90	2397	2356	2445
0.063	36	96	0.88	21.12	2419	2366	2446
0.063	48	96	0.88	28.16	1752	2367	xxx
0.063	48	120	0.88	35.20	1753	2177	xxx
0.063	48	144	0.88	42.24	2421	2368	2176
0.063	60	144	0.88	52.80	2422	2369	2447
0.080	36	96	1.12	26.81	2423	2370	xxx
0.080	48	96	1.12	35.74	xxx	2371	xxx
0.080	48	120	1.12	44.68	2135	2372	xxx
0.080	48	144	1.12	53.62	2424	19311	2448

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.		
	Width	Length			3003-H14	5052-H32	6061-T6
0.080	60	120	1.12	55.85	22912	22539	xxx
0.080	60	144	1.12	67.03	2425	21214	2449
0.090	36	96	1.26	30.17	2426	2374	xxx
0.090	48	96	1.26	40.22	xxx	2375	xxx
0.090	48	120	1.26	50.28	1754	2376	2450
0.090	48	144	1.26	60.34	2427	2377	2451
0.100	48	120	1.40	55.88	2173	2379	xxx
0.100	48	144	1.40	67.06	2430	2380	2455
0.125	36	96	1.75	41.90	2432	2381	2456
0.125	36	120	1.75	52.38	2433	2382	xxx
0.125	48	96	1.75	55.87	2434	2383	2174
0.125	48	120	1.75	69.84	1755	2384	3963
0.125	48	144	1.75	83.81	2435	2385	2458
0.125	60	120	1.75	87.30	xxx	22773	xxx
0.125	60	144	1.75	104.80	2436	2387	2459
0.190	36	96	2.65	63.70	2437	2388	xxx
0.190	48	96	2.65	84.93	26134	2389	xxx
0.190	48	120	2.65	106.16	1756	14358	xxx
0.190	48	144	2.65	127.40	2438	2390	2462
0.190	60	144	2.65	159.00	2439	xxx	2175

ALUMINUM PLATE 6061-T651

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48 1/2	96 1/2	3.53	114.67	10031
1/4	48 1/2	144 1/2	3.53	171.70	1762
5/16	48 1/2	144 1/2	4.41	214.63	2214
3/8	48 1/2	144 1/2	5.29	257.55	1763
1/2	48 1/2	144 1/2	7.06	343.40	1764
5/8	48 1/2	144 1/2	8.82	429.26	3640
3/4	48 1/2	144 1/2	10.58	514.91	1766

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1	48 1/2	144 1/2	14.11	686.71	1767
1 1/4	48 1/2	144 1/2	17.64	858.51	1768
1 1/2	48 1/2	144 1/2	21.17	1030.31	1769
1 3/4	36 1/2	96 1/2	24.70	604.16	23211
2	48 1/2	144 1/2	28.22	1373.42	1770
2 1/2	48 1/2	48	35.28	570.35	20802

ALUMINUM PLATE 5052-H32

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	120	3.49	139.70	2734
1/4	48	144	3.49	167.60	1761

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
3/8	48	144	5.24	251.40	2736

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ALUMINUM PLATE 3003-F

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	120	3.564	142.56	14789
1/4	48	144	3.564	171.07	1760

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
3/8	48	144	5.346	256.60	2741

ALUMINUM TREAD PLATE 6061-T6

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	96	3.670	117.40	4467
1/4	48	120	3.670	148.00	21648
1/4	48	144	3.670	176.20	2817
1/4	48	192	3.670	236.80	1774
1/4	60	192	3.670	296.00	20648



ALUMINUM TREAD-BRITE PLATE 3003-H22

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/8	48	96	1.920	61.40	2810
1/8	48	120	1.920	76.80	2812
1/8	48	144	1.920	92.20	2821
1/8	48	192	1.900	121.60	1775
1/8	60	192	1.900	152.00	2288
3/16	48	96	2.820	90.24	11198
3/16	48	120	2.820	112.80	2813
3/16	48	144	2.820	135.40	2822
3/16	48	192	2.800	179.20	2105
3/16	60	192	2.800	224.00	1853



ALUMINUM EXPANDED METAL - FLATTENED

Thickness Gauge/Inches	Dimensions (inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/2 x .081	48	96	1.78	56.96	14341
3/4 x .125	48	96	0.86	27.52	1120



1/2' x .081 FLATTENED
(APPROX. ACTUAL SIZE)



3/4' x .125 FLATTENED
(APPROX. ACTUAL SIZE)

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ALUMINUM ANGLE 6061-T6

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4 x 3/4 x 1/8	0.20	5.03	4267
1 x 1 x 1/8	0.28	6.88	1855
1 x 1 x 3/16	0.40	10.00	1856
1 x 1 x 1/4	0.51	12.85	1857
1 1/4 x 1 1/4 x 1/8	0.34	8.59	1858
1 1/4 x 1 1/4 x 3/16	0.51	12.76	2289
1 1/4 x 1 1/4 x 1/4	0.66	16.41	1859
1 1/2 x 1 1/4 x 3/16	0.57	14.15	18102
1 1/2 x 1 1/2 x 1/8	0.42	10.59	1860
1 1/2 x 1 1/2 x 3/16	0.62	15.55	1861
1 1/2 x 1 1/2 x 1/4	0.81	20.23	1862
1 3/4 x 1 3/4 x 1/8	0.50	12.43	18528
2 x 1 1/2 x 3/16	0.73	18.28	16405
2 x 1 1/2 x 1/4	0.96	23.90	2495
2 x 2 x 1/8	0.58	14.44	1863
2 x 2 x 3/16	0.85	21.26	1864
2 x 2 x 1/4	1.11	27.75	1865
2 x 2 x 3/8	1.61	40.15	8717
2 1/2 x 2 x 3/16	0.96	24.03	20387
2 1/2 x 2 x 1/4	1.26	31.43	16832
2 1/2 x 2 1/2 x 3/16	1.07	26.75	17294
2 1/2 x 2 1/2 x 1/4	1.40	35.10	2292

25 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 1/2 x 2 1/2 x 3/8	2.05	51.18	16794
3 x 2 x 3/16	1.07	26.78	17202
3 x 2 x 1/4	1.40	35.00	15133
3 x 2 1/2 x 1/4	1.54	37.43	16404
3 x 3 x 3/16	1.28	31.88	16765
3 x 3 x 1/4	1.68	42.10	1866
3 x 3 x 3/8	2.47	61.85	15230
3 x 3 x 1/2	3.23	80.68	2979
3 1/2 x 2 1/2 x 1/4	1.68	42.10	15872
3 1/2 x 3 1/2 x 1/4	1.99	49.73	16381
4 x 3 x 1/4	1.99	49.73	2905
4 x 3 x 3/8	2.93	73.15	2904
4 x 4 x 1/4	2.28	57.08	16350
4 x 4 x 3/8	3.37	84.15	11116
4 x 4 x 1/2	4.41	110.35	16634
5 x 3 x 1/4	2.32	58.00	18637
5 x 3 1/2 x 1/2	4.70	117.60	16795
5 x 5 x 1/2	5.58	139.45	10606
6 x 4 x 3/8	4.24	105.93	18704
6 x 4 x 1/2	5.58	139.45	17938
6 x 6 x 1/2	6.75	168.85	19428
8 x 8 x 1/2	9.14	228.53	5851

ALUMINUM ANGLE 6063-T52

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8 x 3/4 x 3/32	0.11	1.80	15015
1/2 x 1/2 x 1/8	0.13	2.04	2291
3/4 x 3/4 x 1/8	0.20	3.20	2290
1 x 1 x 1/16	0.14	2.26	1867

16 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 1 x 1/8	0.27	4.36	16171
1 1/4 x 1 1/4 x 1/8	0.35	5.57	17852
2 x 1 x 1/8	0.42	6.75	17410
2 x 2 x 1/4	1.10	17.60	14330

ALUMINUM CHANNEL (AMERICAN STANDARD) 6061-T6

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3 x .170 x 1.41	1.42	35.50	4804
4 x .180 x 1.58	1.85	46.25	2260
4 x .247 x 1.65	2.16	54.00	19264

25 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
6 x .225 x 1.95	3.00	75.00	11881
6 x .437 x 2.157	4.50	112.50	17252

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ALUMINUM CHANNEL (SHARP CORNER) 6063-T52

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 1 x 1/8	0.41	6.48	18298
2 x 1 x 1/8	0.55	11.04	17444

16 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3 x 1 x 1/8	0.70	11.18	18301

ALUMINUM FLAT 2024-T4 & T351

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4 x 1/2	0.15	1.82	4005
1/4 x 3/4	0.23	2.73	3631
1/4 x 1	0.30	3.64	11237
1/4 x 2	0.59	7.06	17342
1/4 x 2 1/2	0.74	8.82	17656
1/4 x 3	0.88	10.58	17343
1/4 x 4	1.18	14.11	17344
3/8 x 1/2	0.23	2.74	2856
3/8 x 5/8	0.28	3.41	2857
3/8 x 3/4	0.34	4.09	2858
3/8 x 1	0.45	5.45	2859
3/8 x 1 1/4	0.57	6.82	2860
3/8 x 1 1/2	0.68	8.18	2861
3/8 x 1 3/4	0.80	9.55	2862
3/8 x 2	0.91	10.91	2694
3/8 x 2 1/2	1.14	13.63	2863
3/8 x 3	1.36	16.37	2864
3/8 x 4	1.82	21.82	2865
3/8 x 6	2.73	32.72	2866
1/2 x 5/8	0.38	4.55	2867
1/2 x 3/4	0.45	5.45	2868
1/2 x 7/8	0.53	6.36	2871
1/2 x 1	0.61	7.27	2197
1/2 x 1 1/4	0.76	9.09	2872
1/2 x 1 1/2	0.91	10.91	2873
1/2 x 1 3/4	1.06	12.73	2874
1/2 x 2	1.21	14.54	2875
1/2 x 2 1/2	1.52	18.18	2877
1/2 x 3	1.82	21.82	2198
1/2 x 4	2.42	29.09	2305
1/2 x 6	3.64	43.63	2876
5/8 x 3/4	0.57	6.82	2186
5/8 x 7/8	0.66	7.95	2896
5/8 x 1	0.76	9.09	2897
5/8 x 1 1/4	0.95	11.36	2898
5/8 x 1 1/2	1.14	13.63	2899

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5/8 x 2	1.52	18.18	2900
3/4 x 1	0.91	10.91	2883
3/4 x 1 1/4	0.91	10.91	2199
3/4 x 1 1/2	1.36	16.37	2697
3/4 x 1 3/4	1.59	19.09	2878
3/4 x 2	1.82	21.82	2200
3/4 x 2 1/2	2.27	27.28	2879
3/4 x 3	2.73	32.72	2185
3/4 x 3 1/2	3.18	38.18	2880
3/4 x 4	3.64	43.63	2881
3/4 x 5	4.55	54.54	2882
3/4 x 6	5.45	65.45	2695
1 x 1 1/4	1.52	18.18	2884
1 x 1 1/2	1.82	21.82	2886
1 x 1 3/4	2.12	25.45	2885
1 x 2	2.42	29.09	2887
1 x 2 1/4	3.03	36.36	2181
1 x 2 3/4	9.35	112.20	2245
1 x 3	3.64	43.63	2888
1 x 3 1/2	4.24	50.90	2889
1 x 4	4.85	58.18	2890
1 x 5	6.06	72.72	2891
1 x 6	7.27	87.26	2204
1 1/4 x 2	3.00	36.00	19474
1 1/4 x 2 1/2	3.79	45.46	3889
1 1/4 x 3	4.54	54.49	17673
1 1/2 x 2	3.64	43.63	2892
1 1/2 x 2 1/2	4.55	54.54	2893
1 1/2 x 3	5.45	65.45	2894
1 1/2 x 4	7.27	87.26	2184
1 1/2 x 6	10.91	130.90	2895
2 x 2 1/2	6.06	72.72	11332
2 x 3	7.27	87.26	8715
2 1/2 x 5	14.69	176.28	11955
3 x 4	14.54	174.48	18580

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ALUMINUM

ALUMINUM FLAT 6061-T6 & T6511

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/8 x 3/4	0.11	1.32	1812
1/8 x 1	0.15	1.76	1813
1/8 x 1 1/4	0.18	2.21	2120
1/8 x 1 1/2	0.22	2.65	1814
1/8 x 2	0.29	3.53	1815
3/16 x 3/4	0.17	1.96	2831
3/16 x 1	0.22	2.65	1816
3/16 x 1 1/4	0.28	3.31	2832
3/16 x 1 1/2	0.33	3.97	1817
3/16 x 2	0.44	5.29	1818
3/16 x 2 1/2	0.37	4.42	2188
3/16 x 3	0.66	7.94	2833
1/4 x 1/2	0.15	1.76	16988
1/4 x 3/4	0.22	2.65	2191
1/4 x 1	0.29	3.53	1819
1/4 x 1 1/4	0.37	4.41	1820
1/4 x 1 1/2	0.44	5.29	1821
1/4 x 1 3/4	0.52	6.19	2192
1/4 x 2	0.59	7.06	1822
1/4 x 2 1/2	0.74	8.82	2834
1/4 x 3	0.88	10.58	1823
1/4 x 3 1/2	1.03	12.38	2835
1/4 x 4	1.18	14.11	1824
1/4 x 4 1/2	1.32	15.84	2836
1/4 x 5	1.47	17.64	2837
1/4 x 6	1.76	21.17	2838
1/4 x 7	2.06	24.67	17601
1/4 x 8	2.35	28.20	19480
1/4 x 10	2.94	35.24	15675
1/4 x 12	3.53	42.34	2839
5/16 x 3/4	0.28	3.31	11492
5/16 x 1	0.37	4.41	10077
5/16 x 1 1/2	0.55	6.60	17588
5/16 x 2	0.74	8.82	16632
5/16 x 3	1.10	13.24	16168
3/8 x 1/2	0.22	2.65	2754
3/8 x 3/4	0.33	3.97	2190
3/8 x 1	0.44	5.29	1825
3/8 x 1 1/4	0.55	6.62	2840
3/8 x 1 1/2	0.66	7.94	1826
3/8 x 1 3/4	0.80	9.54	17048
3/8 x 2	0.88	10.58	1827
3/8 x 2 1/2	1.10	13.24	2841
3/8 x 3	1.32	15.88	1828

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8 x 3 1/2	1.54	18.48	18320
3/8 x 4	1.76	21.17	1829
3/8 x 5	2.21	26.46	2842
3/8 x 6	2.65	31.75	1830
3/8 x 8	3.52	42.29	18575
3/8 x 12	5.29	63.44	16139
1/2 x 3/4	0.44	5.29	2193
1/2 x 1	0.59	7.06	1831
1/2 x 1 1/4	0.73	8.78	2194
1/2 x 1 1/2	0.88	10.58	1832
1/2 x 1 3/4	1.03	12.35	2843
1/2 x 2	1.18	14.11	1833
1/2 x 2 1/2	1.47	17.64	1834
1/2 x 3	1.76	21.17	1835
1/2 x 3 1/2	2.06	24.67	16397
1/2 x 4	2.35	28.22	1836
1/2 x 4 1/2	2.65	31.82	2844
1/2 x 5	2.94	35.28	2845
1/2 x 5 1/2	3.23	38.77	3517
1/2 x 6	3.53	42.34	1837
1/2 x 8	4.70	56.45	16767
1/2 x 10	5.87	70.49	11506
1/2 x 12	7.05	84.59	15674
5/8 x 1	0.74	8.82	3638
5/8 x 1 1/4	0.92	11.01	18607
5/8 x 1 1/2	1.10	13.24	3838
5/8 x 2	1.47	17.64	16273
5/8 x 3	2.20	26.44	18561
5/8 x 5	3.75	45.00	18157
3/4 x 1	0.88	10.58	2195
3/4 x 1 1/4	1.10	13.24	2196
3/4 x 1 1/2	1.32	15.88	1838
3/4 x 1 3/4	1.54	18.53	2846
3/4 x 2	1.76	21.17	1839
3/4 x 2 1/2	2.21	26.46	2847
3/4 x 3	2.65	31.75	1840
3/4 x 3 1/2	3.09	37.04	2623
3/4 x 4	3.53	42.34	1841
3/4 x 5	4.42	52.99	2187
3/4 x 6	5.29	63.50	1842
3/4 x 8	7.07	84.84	18315
3/4 x 12	10.57	127.00	18681
1 x 1 1/4	1.47	17.64	1843
1 x 1 1/2	1.76	21.17	1844

CONTINUED ON NEXT PAGE . . .

ALUMINUM

ALUMINUM FLAT (CONTINUED) 6061-T6 & T6511

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 1 3/4	2.06	24.67	15174
1 x 2	2.35	28.22	1845
1 x 2 1/4	2.67	32.04	18235
1 x 2 1/2	2.94	35.28	2203
1 x 3	3.53	42.34	1846
1 x 3 1/2	4.12	49.39	2848
1 x 4	4.70	56.45	1847
1 x 5	5.88	70.56	2183
1 x 6	7.06	84.67	1848
1 x 8	9.41	112.90	2850
1 x 10	11.75	141.00	3639
1 x 12	14.10	169.20	18974
1 1/4 x 1 1/2	2.21	26.46	4803
1 1/4 x 2	2.94	35.28	14144
1 1/4 x 2 1/2	3.68	44.10	10655
1 1/4 x 3	4.54	54.49	17697
1 1/4 x 4	5.88	70.56	16115
1 1/4 x 5 1/2	8.08	96.92	18651
1 1/2 x 2	3.53	42.34	2851
1 1/2 x 2 1/2	4.41	52.92	1849
1 1/2 x 3	5.29	63.50	1850

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2 x 4	7.06	84.67	2852
1 1/2 x 5	8.80	105.60	19419
1 1/2 x 5 1/2	9.70	116.40	2853
1 1/2 x 6	10.58	126.86	1851
1 1/2 x 8 1/2	14.98	179.76	18677
2 x 2 1/2	5.87	70.49	17351
2 x 3	7.06	84.67	1852
2 x 4	9.41	112.90	2182
2 x 5	11.76	141.12	2854
2 x 6 1/2	15.27	183.24	17973
2 x 8 1/2	19.99	239.88	18522
2 1/2 x 3	8.81	105.74	18606
2 1/2 x 3 1/2	10.28	123.36	19914
2 1/2 x 5	14.69	176.28	19425
3 x 3 1/2	12.34	148.08	19368
3 x 4	14.11	169.30	2631
3 x 5	17.61	211.32	19593
3 x 6	21.15	253.80	14443
3 1/2 x 4 1/2	18.50	222.02	19369
4 x 5	23.50	282.00	16501

ALUMINUM ROUND 2024-T4 & T351

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/16	0.034	0.40	18685
5/16	0.092	1.10	19603
3/8	0.130	1.56	17241
7/16	0.177	2.12	17779
1/2	0.238	2.86	4032
5/8	0.360	4.32	16212
3/4	0.535	6.43	2233
13/16	0.621	7.46	19523
1	0.952	11.42	2234
1 1/4	1.487	17.84	17339

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2	2.142	25.70	2242
2	3.765	45.18	19651
2 1/2	5.949	71.39	2235
3	8.567	102.80	2236
3 1/2	11.660	139.92	12151
3 3/4	13.230	158.76	17799
4	15.230	182.76	8716
4 1/4	17.000	204.00	19578
4 1/2	18.700	224.40	16191

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ALUMINUM

ALUMINUM ROUND 6061-T6 & T651

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/8	0.014	0.17	15873
3/16	0.032	0.39	16084
1/4	0.058	0.69	1776
5/16	0.090	1.08	11673
3/8	0.130	1.56	1777
7/16	0.177	2.12	17666
1/2	0.231	2.77	1778
9/16	0.292	3.51	2237
5/8	0.361	4.32	2957
3/4	0.520	6.23	1779
7/8	0.707	8.49	11089
1	0.924	11.08	1780
1 1/8	1.170	14.04	14520
1 3/16	1.302	15.62	2971
1 1/4	1.443	17.32	1781
1 3/8	1.746	20.95	4009
1 1/2	2.078	24.94	1782
1 5/8	2.439	29.27	20492
1 3/4	2.829	33.19	2238
1 7/8	3.244	39.93	19647
2	3.694	44.33	1783
2 1/8	4.171	50.05	4027

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 1/4	4.676	56.11	1784
2 3/8	5.205	62.46	17674
2 1/2	5.773	69.28	1785
2 3/4	6.985	83.82	5254
3	8.312	99.74	1786
3 1/8	9.011	108.13	19835
3 1/4	9.756	117.10	2239
3 1/2	11.310	135.70	1787
3 3/4	12.990	155.88	13450
4	14.780	177.40	1788
4 1/4	16.670	200.04	2240
4 1/2	18.700	224.40	1789
4 3/4	20.820	249.84	17775
5	23.090	277.10	1790
5 1/2	27.940	335.28	17263
6	33.250	399.00	1791
6 1/2	39.020	468.20	1792
7	45.260	543.12	2241
7 1/2	51.900	622.80	26560
8	59.050	708.60	25542
8 1/2	66.660	799.92	18247
9	74.810	897.72	24363

ALUMINUM HEXAGON 6061-T6 & T651

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/2	0.255	3.06	16137
5/8	0.398	4.77	17651
3/4	0.573	6.87	16138
7/8	0.779	9.35	18590

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1	1.018	12.22	14460
1 1/4	1.591	19.09	17886
1 1/2	2.286	27.43	15714
2 1/4	5.170	62.00	18640

ALUMINUM SQUARE 2024-T4 & T351

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4	0.076	0.91	15081
1/2	0.303	3.64	17340
3/4	0.682	8.18	2210
1	1.212	14.54	17341

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2	2.727	32.72	2211
2	4.848	58.18	18334
2 1/2	7.575	90.90	11078
3	10.910	109.10	11737



ALUMINUM

ALUMINUM SQUARE 6061-T6511

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8	0.164	1.96	11230
1/2	0.294	3.53	1795
5/8	0.459	5.51	2206
3/4	0.662	7.94	1796
7/8	0.901	10.81	2906
1	1.176	14.11	1797
1 1/8	1.489	17.87	2909
1 1/4	1.838	22.06	1798
1 1/2	2.646	31.75	1799

12 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 3/4	3.600	43.20	2207
2	4.704	56.45	1800
2 1/2	7.340	88.08	2908
3	10.580	126.96	2208
3 1/2	14.700	176.40	2209
4	18.800	225.60	1801
5	29.380	352.56	2910
6	42.360	508.32	2911

ALUMINUM ROUND TUBE 6061-T6 & T6511

Size In Inches	Wall Thickness	Weight Per Foot	Weight Per R.L.	Random Length	MMS Stock No.
3/8	0.049	0.059	0.71	12'	18609
3/8	0.065	0.075	0.90	12'	19695
1/2	0.065	0.105	1.25	12'	11148
1/2	0.120	0.168	2.02	12'	17199
5/8	0.028	0.062	0.74	12'	17515
5/8	0.058	0.121	1.45	12'	19485
5/8	0.146	0.298	3.28	12'	20260
3/4	0.065	0.165	1.98	12'	19596
3/4	0.083	0.205	2.45	12'	4507
7/8	0.065	0.195	2.34	12'	19426
1	0.058	0.202	2.42	12'	16479
1	0.065	0.225	2.69	12'	11265
1	0.083	0.281	3.37	12'	2494
1	0.125	0.404	4.85	12'	10108
1 1/8	0.095	0.362	4.34	12'	18576
1 1/4	0.035	0.157	1.88	12'	19575
1 1/4	0.250	0.924	11.09	12'	18446
1 1/4	0.250	0.924	22.18	24'	18573
1 1/2	0.065	0.345	4.14	12'	15721
1 1/2	0.083	0.435	5.22	12'	3634
1 1/2	0.125	0.635	15.24	24'	16444
1 1/2	0.250	1.155	27.72	24'	17740
1 3/4	0.125	0.750	18.00	24'	17396

SEE CHART FOR RANDOM LENGTH

Size In Inches	Wall Thickness	Weight Per Foot	Weight Per R.L.	Random Length	MMS Stock No.
1 3/4	0.250	1.385	33.24	24'	18617
2	0.065	0.585	7.02	12'	17301
2	0.083	0.588	7.06	12'	19540
2	0.125	0.866	10.39	12'	4276
2	0.125	0.866	20.78	24'	11154
2	0.250	1.616	19.39	12'	3833
2	0.250	1.620	38.88	24'	16750
2 1/4	0.125	0.981	23.54	24'	10011
2 1/4	0.250	1.847	44.33	24'	11633
2 1/2	0.065	0.585	7.02	12'	2744
2 1/2	0.125	1.100	13.20	12'	10016
2 1/2	0.125	1.100	26.40	24'	18563
2 1/2	0.250	2.078	49.87	24'	18348
2 1/2	0.375	2.950	70.80	24'	18578
2 3/4	0.125	1.200	28.80	24'	17705
2 3/4	0.375	3.290	78.96	24'	17945
3	0.065	0.705	8.46	12'	17495
3	0.125	1.328	31.87	24'	18173
3	0.250	2.540	60.96	24'	13983
3	0.375	3.637	87.29	24'	17001
3 1/2	0.250	3.002	72.05	24'	17681
4	0.250	3.460	83.04	24'	16751
4	0.500	6.470	155.28	24'	1604

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ALUMINUM

ALUMINUM PIPE 6061-T6

Norm Size Inches	Wall Schedule	Size	O.D.	I.D.	Weight Per Foot	Weight Per R.L.	MMC. Stock No.
1/2	40	0.109	0.84	0.622	0.294	5.888	1873
1/2	80	0.147	0.84	0.546	0.376	7.52	17668
3/4	40	0.113	1.05	0.824	0.391	7.824	1874
1	80	0.179	1.315	0.957	0.751	15.026	
1 1/4	40	0.14	1.66	1.38	0.786	15.724	1876
1 1/4	80	0.191	1.66	1.278	1.037	20.74	12099
1 1/2	40	0.145	1.9	1.61	0.940	18.804	1877
1 1/2	80	0.2	1.9	1.5	1.256	25.12	14452
2	40	0.154	2.375	2.067	1.264	25.28	1878

20 FOOT RANDOM LENGTH

Norm Size Inches	Wall Schedule	Size	O.D.	I.D.	Weight Per Foot	Weight Per R.L.	MMC. Stock No.
2	80	0.218	2.375	1.939	1.737	34.74	16276
2 1/2	40	0.203	2.875	2.469	2.004	40.08	
2 1/2	80	0.276	2.875	2.323	2.650	53	18662
3	40	0.216	3.5	3.068	2.621	52.42	1286
3	80	0.3	3.5	2.9	3.547	70.94	2800
3 1/2	40	0.226	4	3.548	3.151	63.02	1287
3 1/2	80	0.318	4	3.364	4.326	86.52	2801
4	40	0.237	4.5	4.026	3.733	74.66	1288
6	40	0.28	6.625	6.065	6.564	131.28	1290

ALUMINUM SQUARE TUBE 6063-T5 & T52

Size In Inches	Wall Dia. In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4	1/8	0.364	7.67	11546
1	1/16	0.271	5.71	16392
1	1/8	0.509	10.74	1868
1 1/4	1/8	0.655	13.81	1869
1 1/2	1/8	0.800	25.72	1870

21 FOOT RANDOM LENGTH

Size In Inches	Wall Dia. In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 3/4	1/8	0.946	19.94	2253
2	1/8	1.091	23.00	1871
2 1/2	1/8	1.425	30.04	11194
4	1/8	2.225	46.91	2255

ALUMINUM SQUARE TUBE 6061-T6 & T6511

Size In Inches	Wall Dia. In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2	1/4	2.058	43.39	2254
3	1/4	2.540	53.55	3656

21 FOOT RANDOM LENGTH

Size In Inches	Wall Dia. In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
4	1/4	4.307	90.81	14344

ALUMINUM TEE AMERICAN STANDARD 6061-T6

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2 x 1 1/4 x 1/8	0.435	9.57	14430
1 1/2 x 1 1/2 x 3/16	0.682	15.01	2268

25 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2 x 1 1/2 x 1/4	0.805	20.13	17620
2 x 2 x 1/4	1.260	31.50	2269

ALUMINUM TEE SHARP CORNER 6063-T52

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/4 x 3/4 x 1/8	0.200	3.20	2267

16 FOOT LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 1 x 1/8	0.274	4.38	12367

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GALVANIZED STEEL

GALVANIZED STEEL SHEET

Thickness Gauge/Inches	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
8	48	120	7.22	288.80	11602
8	48	144	7.22	346.56	14953
8	60	120	7.22	361.00	20937
10	48	96	5.78	184.96	2776
10	48	120	5.91	236.48	1900
10	60	120	5.78	289.10	2778
12	48	96	4.53	144.96	2413
12	48	120	4.60	183.75	1901
12	60	120	4.53	226.60	2785
14	48	96	3.28	104.96	2496
14	48	120	3.28	131.24	1902
14	60	120	3.28	164.00	2789
16	36	96	2.66	63.75	24626
16	48	96	2.66	85.00	2790

Thickness Gauge/Inches	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
16	48	120	2.63	105.00	1903
16	60	120	2.66	133.00	2168
18	48	96	2.16	69.00	2791
18	48	120	2.10	84.00	1904
18	60	120	2.10	105.00	9401
20	36	120	1.66	49.70	2923
20	48	96	1.66	52.99	22950
20	48	120	1.66	66.24	1905
22	48	96	1.41	44.99	10098
22	48	120	1.41	56.24	21976
24	48	96	1.16	37.12	18671
24	48	120	1.16	46.20	2936
26	48	96	0.91	28.99	15058

GALVANIZED STEEL PLATE

Size In Inches	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	96	10.62	339.72	13773

Size In Inches	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	120	10.62	424.80	10385

GALVANIZED FLOOR PLATE

Size In Inches	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/4	48	96	11.25	360	16801
1/4	48	120	11.275	451	21626



GALVANIZED FLATTENED EXPANDED METAL

Thickness Gauge/Inch	Dimensions (Inches)		Weight Per Sq. Ft.	Weight Per Sheet	MMS Stock No.
	Width	Length			
1/2 x 16	48	96	0.83	26.56	5803
3/4 x 9	48	96	1.95	62.4	3959
3/4 x 13	48	96	0.8	25.6	3056



1/2" 13.00 FLATTENED
(APPROX. ACTUAL SIZE)



3/4" 9.00 FLATTENED
(APPROX. ACTUAL SIZE)

GALVANIZED STEEL

GALVANIZED STEEL FLAT

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/8 x 4	1.80	36.00	16780
3/16 x 1	0.67	13.40	1910
3/16 x 1 1/4	0.83	16.70	2294
3/16 x 1 1/2	1.00	20.08	1911
3/16 x 2	1.34	26.88	1912
1/4 x 1	0.89	17.85	1913
1/4 x 1 1/4	1.11	22.26	1914
1/4 x 1 1/2	1.34	26.88	1915
1/4 x 2	1.79	35.70	1916
1/4 x 2 1/2	2.24	44.73	3203
1/4 x 3	2.68	53.55	1917
1/4 x 4	3.57	71.40	1918
1/4 x 5	4.25	85.00	18653

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/4 x 6	5.36	107.10	1919
3/8 x 1 1/2	2.00	40.00	16723
3/8 x 2	2.68	53.55	1920
3/8 x 3	4.02	80.40	10099
3/8 x 4	5.10	102.00	17076
3/8 x 6	7.65	153.00	17077
1/2 x 1	1.78	35.60	3961
1/2 x 2	3.57	71.40	11119
1/2 x 3	5.36	107.20	14012
1/2 x 4	7.14	142.80	1921
1/2 x 4 1/2	8.00	160.00	12225
1/2 x 6	10.71	214.20	18307

GALVANIZED STEEL CHANNEL

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2 x 9/16 x 3/16	1.51	30.24	12915
2 x 1 x 3/16	2.44	48.80	2920
3 x 4.1#	4.31	86.20	2100
4 x 5.4#	5.67	113.40	2101

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5 x 6.7#	7.04	140.70	2102
6 x 8.2#	8.61	172.20	2103
8 x 11.5#	12.08	241.40	18645

GALVANIZED STEEL ANGLE

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 x 1 x 1/8	0.80	16.00	2293
1 x 1 x 1/4	1.56	31.29	1924
1 1/4 x 1 1/4 x 3/16	1.55	31.08	1926
1 1/4 x 1 1/4 x 1/4	2.02	40.32	1927
1 1/2 x 1 1/2 x 1/8	1.29	25.83	1928
1 1/2 x 1 1/2 x 3/16	1.89	37.80	1929
1 1/2 x 1 1/2 x 1/4	2.46	49.14	1930
2 x 2 x 1/8	1.73	34.65	1931
2 x 2 x 3/16	2.65	52.92	1932

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2 x 2 x 1/4	3.35	66.99	1933
2 1/2 x 2 1/2 x 3/16	3.22	64.40	19408
2 1/2 x 2 1/2 x 1/4	4.31	86.10	1934
3 x 3 x 1/4	5.15	102.90	1935
3 x 3 x 3/8	7.56	151.20	13917
3 1/2 x 3 1/2 x 1/4	5.80	116.00	18550
4 x 4 x 1/4	6.93	138.60	1936
4 x 4 x 3/8	10.29	205.80	2954
5 x 3 x 1/4	6.89	137.80	18503

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GALVANIZED STEEL

GALVANIZED STEEL ROUND

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
3/8	0.39	7.90	1906
1/2	0.70	14.03	1907

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
5/8	1.09	21.84	1908
3/4	1.58	31.50	1909

GALVANIZED STEEL SQUARE TUBE

Size In Inches	Wall Gauge	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1	0.125	1.44	34.56	10589
1 1/2	0.125	2.60	62.40	11014
1 1/2	0.188	3.19	76.61	11455

24 FOOT RANDOM LENGTH

Size In Inches	Wall Gauge	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
2	0.25	5.41	129.84	15165
3	0.25	9.25	222.00	13932
4	0.25	13.14	315.36	17720

GALVANIZED STEEL I-BEAM

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
S 4 x 7.7#	8.09	161.70	11419

20 FOOT RANDOM LENGTH

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
S 6 x 12.5#	13.15	263.00	15744

GALVANIZED STEEL TEE

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1 1/2 x 1 1/2 x 3/16	1.90	38.00	20874

20 FOOT RANDOM LENGTH

GALVANIZED STEEL MEAT RAIL

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
1/2 x 2 1/2	4.463	89.25	1922

20 FOOT RANDOM LENGTH

GENERAL CHARACTERISTICS & APPLICATIONS

CARBON STEEL

Carbon steel, also called plain carbon steel, is a malleable, iron-based metal containing carbon, small amounts of manganese, and other elements that are inherently present. Steels can either be cast to shape or wrought into various mill forms from which finished parts are formed, machined, forged, stamped, or otherwise shaped.

Carbon Steel is the most common type of steel that contains about 0.1 to 0.3% carbon. In general, increase in the amount of carbon reduces ductility but increases tensile strength and the ability to harden through tempering. As an industry-wide practice, steel that does not contain any specified or standard amount of one or more alloying elements (such as chromium, molybdenum, nickel, titanium, or vanadium) to be classified as alloy steel is called Carbon Steel.

As the carbon content rises, steel has the ability to become harder and stronger through heat treating, but this also makes it less ductile. Regardless of the heat treatment, higher carbon content reduces weldability. In carbon steels, the higher carbon content lowers the melting point.

85% of all steel used in the United States is carbon steel.

MILD AND LOW CARBON STEEL

Mild steel is the most common form of steel because its price is relatively low while it provides material properties that are acceptable for many applications. Low carbon steel contains approximately 0.05–0.15% carbon and mild steel contains 0.16–0.29% carbon, therefore it is neither brittle nor ductile. Mild steel has a relatively low tensile strength.

MEDIUM CARBON STEEL

Medium carbon steel contains approximately 0.30-0.59% carbon. It balances ductility and strength and has good wear resistance. Medium carbon steel is used for large parts, forging, and automotive components.

HIGH CARBON STEEL

High carbon steel contains approximately 0.60-0.99% carbon. It is very strong and is used for springs and high strength wires.

CARBON STEEL

TO ORDER CALL 1-800-662-4262

CARBON STEEL

Millard Metal Services offers the following selections of Carbon Steel (but not limited to):

Angles	$\frac{3}{4}$ " x $\frac{1}{8}$ " through 6" x 6" x $\frac{1}{2}$ "
Beams	3" through 6"
Channels	1- $\frac{1}{2}$ " x 8"
Expanded Metal	$\frac{1}{2}$ " x 16ga through $\frac{3}{4}$ " x 9ga (Flattened)
Flats	$\frac{1}{8}$ " x $\frac{1}{2}$ " through 2" x 6"
Plate	$\frac{1}{4}$ " through 1- $\frac{1}{4}$ "
Hex	$\frac{1}{4}$ " through 2"
Tubing: Round Square Rectangle	$\frac{1}{4}$ " through 8" $\frac{3}{4}$ " through 6" 1" x 1- $\frac{1}{2}$ " through 4" x 8"
Rounds (including stress-proof)	$\frac{1}{8}$ " through 12"
Sheets	20 ga through 7 ga.



If you don't see it listed, please ask and we will do everything we can to fill your needs.



CARBON STEEL

CARBON STEEL PIPE

Size In Inches	Schedule	Wall Thickness	O.D.	I.D.
1/8	40	0.068	0.405	0.269
1/8	80	0.095	0.405	0.215
1/4	40	0.088	0.540	0.364
1/4	80	0.119	0.540	0.302
3/8	10	0.065	0.675	0.545
3/8	40	0.091	0.675	0.493
3/8	80	0.126	0.675	0.423
1/2	10	0.083	0.840	0.674
1/2	40	0.109	0.840	0.622
1/2	80	0.147	1.050	0.546
3/4	10	0.083	1.050	0.884
3/4	40	0.113	1.050	0.824
3/4	80	0.154	1.315	0.742
1	10	0.109	1.315	1.097
1	40	0.133	1.315	1.049
1	80	0.179	1.660	0.957
1 1/4	10	0.109	1.660	1.442
1 1/4	40	0.140	1.660	1.380
1 1/4	80	0.191	1.660	1.278
1 1/2	10	0.109	1.900	1.682
1 1/2	40	0.145	1.900	1.610
1 1/2	80	0.200	1.900	1.500
2	10	0.109	2.375	2.157

Size In Inches	Schedule	Wall Thickness	O.D.	I.D.
2	40	0.154	2.375	2.067
2	80	0.218	2.375	1.939
2 1/2	10	0.120	2.875	2.635
2 1/2	40	0.203	2.875	2.469
2 1/2	80	0.276	2.875	2.323
3	10	0.120	3.500	3.260
3	40	0.216	3.500	3.068
3	80	0.300	3.500	2.900
3 1/2	10	0.120	4.000	3.760
3 1/2	40	0.226	4.000	4.026
3 1/2	80	0.318	4.000	3.364
4	10	0.120	4.500	4.260
4	40	0.237	4.500	4.026
4	80	0.337	4.500	3.826
5	10	0.134	5.563	5.295
5	40	0.258	5.563	5.047
5	80	0.375	5.563	4.813
6	10	0.134	6.625	6.357
6	40	0.280	6.625	6.065
6	80	0.432	6.625	5.761
8	40	0.322	8.625	7.981
10	40	0.365	10.750	10.020
12	40	0.406	12.750	12.000

20 FOOT RANDOM LENGTH



**HAVE YOUR ORDER
"CUT-TO-SIZE"**

**Most Orders Filled and Shipped Within 24 Hours!
If You Don't See It... Ask For It... We Can Help You With Hard To Find Items**

CARBON STEEL

ZINC PLATED THREADED ROD

Size In Inches	Threads Per Inch	6 Foot Length	12 Foot Length
1/4	20	xxx	8740
5/16	18	xxx	8741
3/8	16	xxx	8742
7/16	14	xxx	8743
1/2	13	xxx	8744
5/8	11	xxx	8745
3/4	10	xxx	8746
7/8	9	xxx	6803
1	8	xxx	2941



COLD ROLLED ROUND KEYED SHAFT



CARBON STEEL w/KEYWAY

Size In Inches	Weight Per Ft.	Est. Weight Per R.L.	MMS Stock No.
0.75 x 3/16	1.500	15.00	2277
1.00 x 1/4	2.670	26.70	2939
1.18 x 1/4	3.770	37.70	3180
1.25 x 1/4	4.170	41.70	2279
1.43 x 3/8	5.520	55.20	2280
1.50 x 3/8	6.010	60.10	2281
1.75 x 3/8	8.180	81.80	17711



****METRIC SIZES AVAILABLE - CALL WITH YOUR NEEDS****



GENERAL CHARACTERISTICS & APPLICATIONS

BRASS AND BRONZE

Brasses are essentially alloys of copper and zinc. As zinc is added to copper, alloys are produced with increasingly higher tensile and yield strengths, an important factor in many applications. Small amounts of other elements are sometimes added to achieve desired color, strength, ductility, machinability, and improved corrosion resistance. These are considered as Bronzes.

The plain Brasses contain only copper and zinc in varying amounts. A zinc content of 20% or less is called Low-Zinc Brass; 30-40% zinc content can be described as High-Zinc Brass. Lead is added when improved machinability is desired.

The excellent ductility and malleability characteristics of the Low-Zinc Brasses produce deep drawn parts. All of these alloys may be annealed to accomplish additional forming operations but none can be heat treated as in the case of ferrous metals. Increased strength properties are reached only through alloying or cold working.

All Brass alloys, for the most part, have excellent welding, soldering, polishing, and cold and hot working properties.

(954) Aluminum Bronze Alloy is a very popular alloy for high strength bronze.

(660) Continuous Cast Bearing Bronze is another product that is popular for use in bearings and bushings, both as original equipment and repair.

COPPER

COPPER.....one of the oldest names in metallurgical history. This remarkable red metal is unique under almost any condition. Alone, it offers electrical and heat conductivity second only to silver. With almost a complete resistance to corrosion, it is unsurpassed in performance in both hot and cold working properties.

Beryllium Copper, OFE (Oxygen-Free Electronic) Copper, ensures an extra high grade of metal with a Copper content at 99.9%. Inherent properties of elemental Copper are high ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of weldability, and low volatility under high vacuum.

BRASS / BRONZE /
COPPER

TO ORDER CALL 1-800-662-4262

BRASS

- **Rods/Bars**
- **Flats**
- **Sheets**
- **Plate**
- **Tube (cored)**

Varied Sizes, Lengths and Drop available.....Call us for your needs.

Free-Cutting Brass is the accepted standard for general high speed screw machine work with a machinability rating of 100. It is the most economical and practical metal for drilling, knurling, milling, tapping, threading and turning. Uniformity of composition, temper and free-cutting characteristics permit duplications of known machine feeds and speeds and avoids excessive tool wear and breakage. Brass is rustproof, corrosion resistant, and finishes with a smooth surface. It is an excellent choice for plating.

Nominal Chemical Composition

Copper	61.5%
Zinc	35.4%
Lead	3.1%

Fabricating Performance

Cold Forming	Poor
Machining	Excellent
Brazing	Good
Welding:	
Arc	Not Recommended
Gas	Not Recommended
Resistance	Not Recommended



BRONZE

- **Rods/Bars**
- **Flats**
- **Sheets**
- **Plate**
- **Tube (cored)**
- **954 Aluminum Bronze**
- **660 Bearing Bronze**

Varied Sizes, Lengths and Drop available.....Call us for your needs.

(954)

954 Aluminum Bronze Alloy is by far the most versatile of the Ampco Metal alloys. It is the grade most widely used for machine part service where conditions are unusually severe. Its cold drawn finish is held within commercial tolerances making it a perfect choice for automatic screw machine work. The inherent characteristics of 954 enable it to be used in many applications such as bushings, gears, valve seats, worms, plungers, tied rods for corrosive liquid vats and hydraulic valve parts.

Nominal Chemical Composition

Aluminum	10.5%
Iron	3.5%
Others	0.50%
Copper	Balance

Fabricating Performance

Cold Machining	Poor
Machining	Fair
Silver Brazing	Fair
Welding:	
Arc	Good
Gas	Not Recommended
Resistance	Good

CONTINUOUS CAST BEARING BRONZE (SAE 660)

A widely used bronze alloy, and the most satisfactory general purpose bearing and bushing stock, is the SAE 660. Continuous Cast Bronze is an economical, readily available replacement for many parts where bearing properties are essential. Its low coefficient of friction, conformability and embeddability in combination with good physical properties such as impact and fatigue strength, enables its use in applications where more expensive alloys are specified. It is free from soft or hard spots, porosity, sand and dross and has excellent machining properties.

Continuous Cast SAE 660 Bronze is used in all phases of industry as bushings, bearings, gears, nuts, thrust washers and other similar bearing applications in both machine repair and production assemblies.

Nominal Chemical Composition

Copper	83%
Tin	7%
Lead	7%
Zinc	3%

COPPER

- **Rods/Rounds**
- **Bars**
- **Flats**
- **Sheets**
- **Plate**

Varied Sizes, Lengths and Drop available.....Call us for your needs.

Specified because of its high thermal and electrical conductivity, Copper is used for welding fixtures, anodes, bus bar in electrical power installations, ground straps, commutators, etc. Its inherent fabrication qualities readily permit it to be bent, soldered, drilled, preened, riveted and formed to fit almost any design specification.

Nominal Chemical Composition

Copper 99.9%

Fabricating Performance

Cold Machining Excellent

Machining Fair

Brazing Good

Welding:

Arc Fair

Gas Not Recommended

Resistance Not Recommended



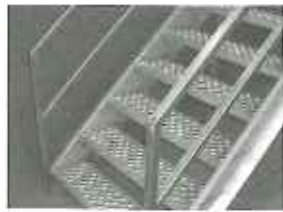
OptiGrip

WALKSURFACES

Exclusively sold by
Millard Metal Services and
Millard Manufacturing Corp.

www.optigripwalksurface.com

OptiGrip walk surface is the superior choice for sanitary applications that require sure footing. Standardized on by major food processors, this proprietary design will provide you with a long lasting, easily cleaned walk surface that stands up to harsh and frequently cleaned environments. The pre-formed tread design permits easy fabrication of our own stairs and platforms.



OptiGrip walk surfaces are stocked in several common sizes (F Style only) and can be made-to-order for just-in-time (JIT) delivery. Two leg styles and three end styles are available with a wide range of standard widths and custom lengths. We can customize the product to meet your specific needs.

COMMON FEATURES



Gripper Cones give sure footing by biting the foot through debris, liquids, and grease. The staggered tread pattern assures that in each step two or more gripper cones contact the foot giving traction in all directions. Debris is pressed down and away from the foot by the cone giving a firm grip. The large (7/8" diameter) hole reduces hazardous material accumulation allowing it to fall away. The result is firm footing which reduces slips, falls, and injuries.



Drain Holes prevent slippery pooling by draining liquids away quickly. The OptiGrip walk surface can be washed down and used right away.



Stainless Steel Construction provides a strong, long lasting, easily cleaned walk surface that stands up to harsh and frequently cleaned environments. Initial cost is reasonable when compared to other materials, and of continuing value because it is virtually maintenance free. Additional material options are available.



Step Edge Option for stair treads adds more grip on the front edge to help with footing on step and stair applications.

Customizable lengths allow you to design an optimum fit for your application and various choices for end styles make it easy to fill a wide range of needs for cleaning and installation.

Applications include stair treads, platforms, crossovers, mezzanines, drain covers, and elevated decks.

OPTIGRIP

OPTIGRIP

OptiGrip Options... Choose one of two styles, with three end cap options and nine widths. Any length up to the maximum is available. The S option is available on the K style for stair treads.

STYLES







Features	K Style	F Style
End View		
Material	12 Ga. Stainless Steel	14 Ga. Stainless Steel
Maximum Length	60"	120"
Stock Sizes	No	Yes
Serrated Edges	Step Edge Optional	Yes
Edges Finished	Edges deburred & corners radiused	No

WIDTHS

Standard Widths (+-1/16")

Number of Holes Across*	K Style 12 ga.	F Style 14 ga.
1	2.89"	2.34"
2	4.08"	3.52"
3	5.27"	4.71"
4	6.45"	5.90"
5	7.64"	7.08"
6	8.83"	8.27"
7	10.02"	9.46"
8	11.20"	10.65"
9	12.39"	11.83"

END CAPS








Options	K Style	F Style
E1...none		
E2...solid		
E3...hole/slot		



9 Hole Example

*WIDTH is determined by the number of gripper holes in the first two rows.

OPTIGRIP PART NUMBERING GUIDE

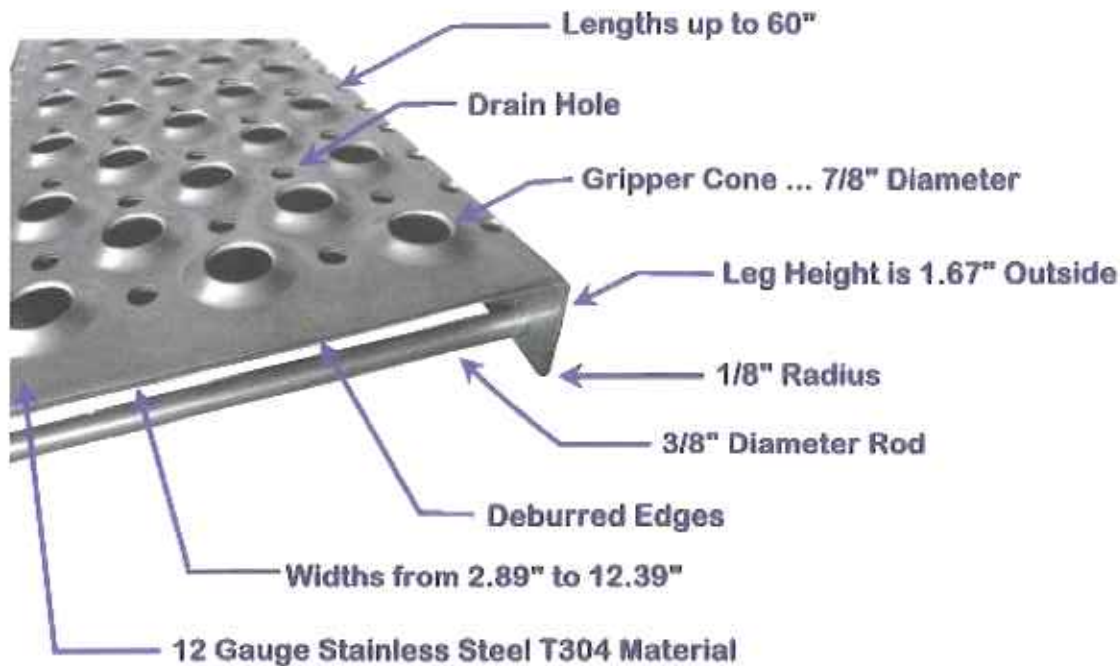
Style	Holes	Length	End Cap	Other
				
K... 	1	XXX.XXX	E1 ... none	S ... Step
F... 	:		E2 ... solid	
	9		E3 ... hole/slot	

Example: K-5-24.50-E1 would be a K style tread with no end caps 5 hole width

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OPTIGRIP

K style OptiGrip is designed for the sanitary environment. The straight leg design reduces the risk of product buildup and simplifies clean up. The K style is deburred on the edges and has radiused corners for safe handling during lift-out wash down applications.



K style OptiGrip treads with the optional **Step Edge** feature are designed for step and stair applications in a sanitary environment. The straight leg design reduces the risk of product buildup and simplifies clean up. The gripping front edge is designed to provide more grip while going up and down.



OPTIGRIP

F style OptiGrip is the original design and is suited for most industrial applications. It can be ordered from stock in 10 foot sections or can be made-to-order in custom lengths.

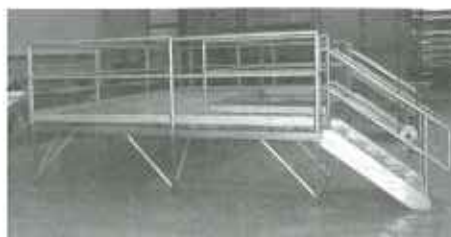


OPTIGRIP STOCK SIZES

Style	Holes Wide	Width	Length	Part Number	Stock Number
F	1	2.34"	120"	F-1-120-E1	17983
F	3	4.71"	120"	F-3-120-E1	17984
F	5	7.08"	120"	F-5-120-E1	17985
F	7	9.46"	120"	F-7-120-E1	17986
F	9	11.83"	120"	F-9-120-E1	4044

STRUCTURE AND SUPPORT FABRICATION

We can also provide complete assemblies such as stairs, mezzanines, cat-walks, and walkways including the walk surfaces and the structure for your custom industrial needs. Food plant applications are our specialty. Send us your design or contact one of our engineers to design it for your space.

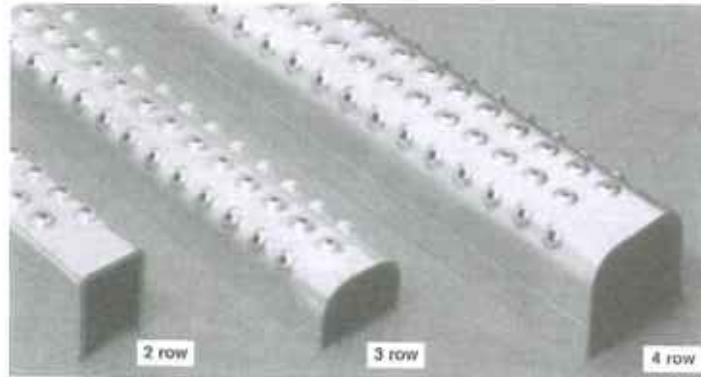


OPTIGRIP

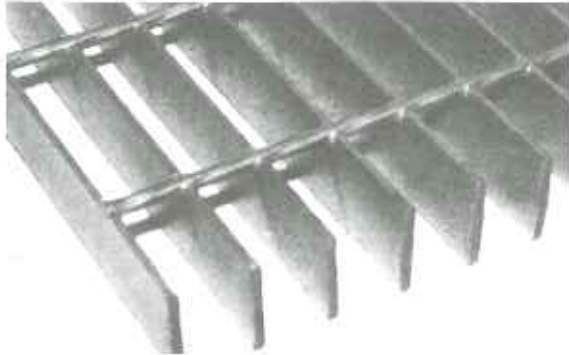
OTHER WALK SURFACES

Millard Metal Services offers a variety of walksurface choices to meet your needs. Applications include platforms, raised floors, elevated decks, stair treads, ladder rungs, and drain covers.

MORTON GRIP LADDER RUNGS



BAR GRATING



FLAT BAR GRATING



SERRATED BAR GRATING

FIBERGLASS GRATING



SQUARE MESH



RECTANGULAR MESH

FABRICATED ITEMS

The following diagrams show examples of some of our most commonly requested items. These products are available in a variety of metals including stainless, aluminum and carbon steel. If you don't see what you're looking for, just ask. We are also happy to assist you with any first or second step fabrication needs.

FORMED ANGLES

FORMED CHANNELS (EQUAL LEGS)

FORMED CHANNELS (UNEQUAL LEGS)

DRIP PAN (4 SIDED)

BASE PLATE (UNIFORM)

ROLLED TUBES (NOT WELDED)

FLANGES

GUSSETS



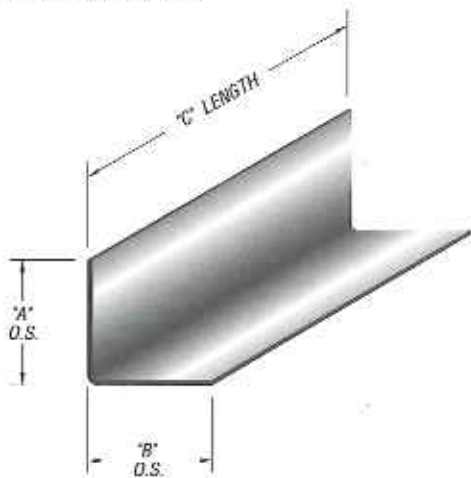
FABRICATED ITEMS

TO ORDER CALL 1-800-662-4262



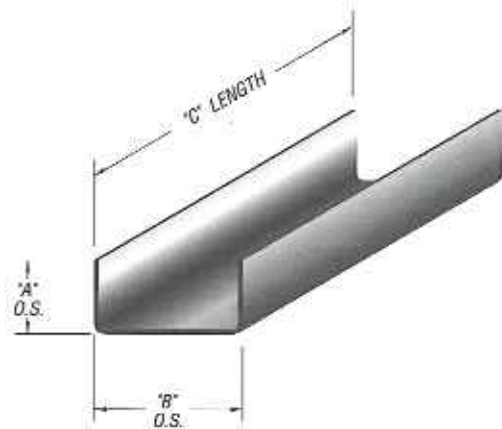
FABRICATED ITEMS

① FORMED ANGLES



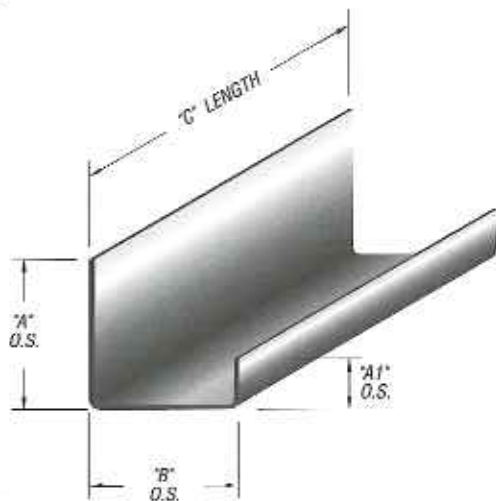
MATERIAL TYPE _____
MATERIAL THICKNESS _____

② FORMED CHANNELS "EQUAL LEGS"



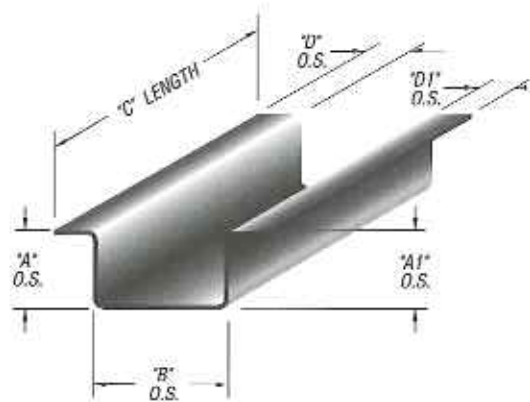
MATERIAL TYPE _____
MATERIAL THICKNESS _____

③ FORMED CHANNELS "UNEQUAL LEGS"



MATERIAL TYPE _____
MATERIAL THICKNESS _____

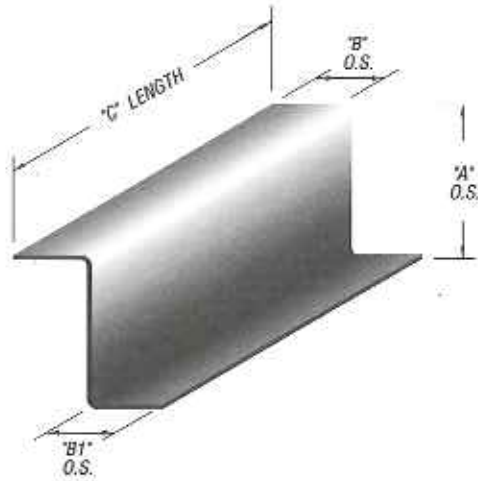
④ HAT CHANNEL



MATERIAL TYPE _____
MATERIAL THICKNESS _____

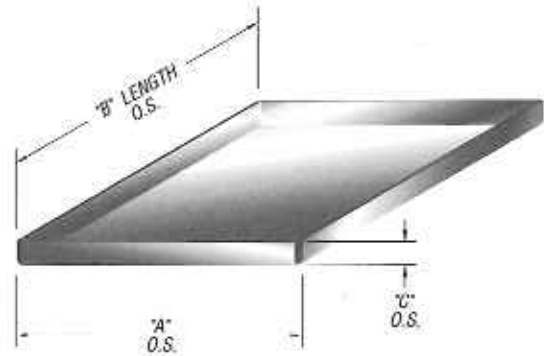
FABRICATED ITEMS

⑤ FORMED "Z"s



MATERIAL TYPE _____
 MATERIAL THICKNESS _____

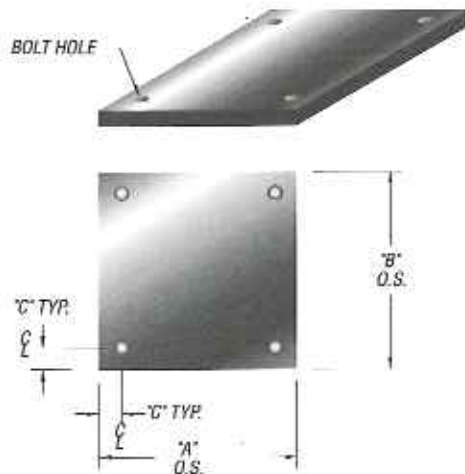
⑥ DRIP PAN (4 SIDED)



MATERIAL TYPE _____
 MATERIAL THICKNESS _____

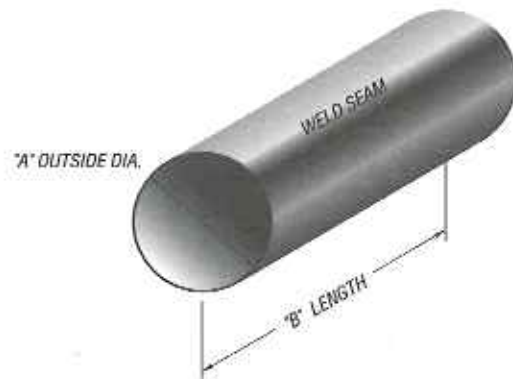
- AVAILABLE W/DRAIN HOLE TO FIT YOUR NEED.
- ALSO AVAILABLE W/3 SIDES (3 UP 1 DOWN).

⑦ BASE PLATE (UNIFORM)



MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 BOLT HOLE DIAMETER _____

⑧ ROLLED TUBES (NOT WELDED)

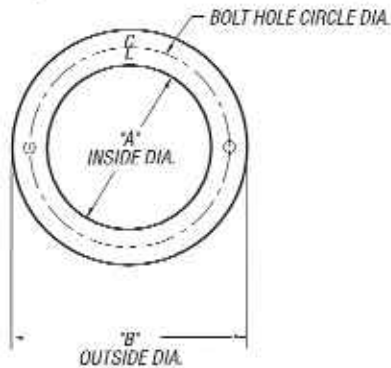


MATERIAL TYPE _____
 MATERIAL THICKNESS _____

- AVAILABLE IN WELDED FORM WITH OPTION FLARE ROLLED FOR SLIP FIT EASY INSTALLATION.
- ELBOWS AND CONE REDUCERS ALSO AVAILABLE.

FABRICATED ITEMS

9 FLANGES (UNIFORM BOLTING PATTERN)



MATERIAL TYPE _____

MATERIAL THICKNESS _____

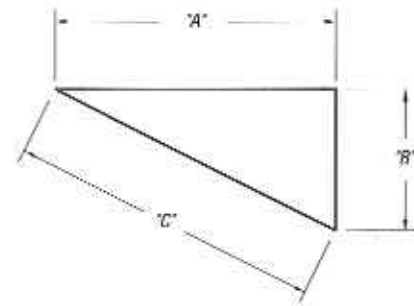
BOLT HOLE OPTIONS _____

BOLT HOLE DIA. _____

BOLT HOLE CIRCLE DIA. _____ ϕ DIA.

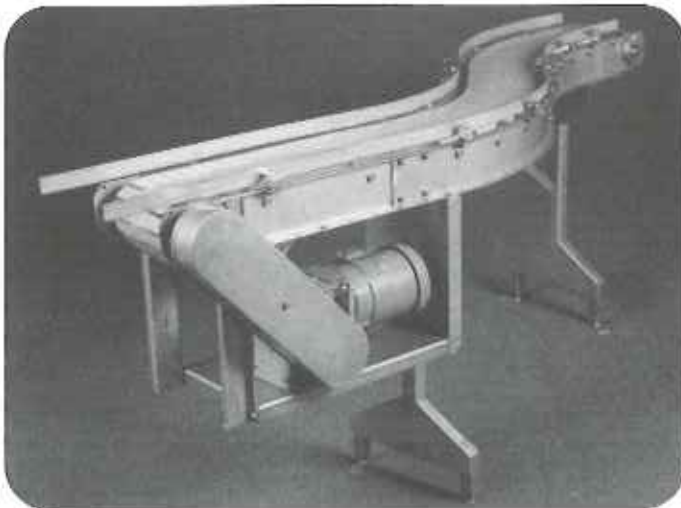
NUMBER OF HOLES _____

10 GUSSETS



MATERIAL TYPE _____

MATERIAL THICKNESS _____



SHOULD YOUR PROJECT CALL FOR MORE COMPLEX FABRICATION . . .

we can refer you to our affiliate, Millard Manufacturing Corp. This well-known stainless steel fabricator has been serving the frozen food, canning, red meat and poultry industries for over a quarter century. The experienced team at Millard Manufacturing will work with you to create custom equipment, machinery and systems designed to meet your specific needs. If you'd like to know more, visit their web site at Millardmfg.com or call toll free at 800-662-4263.

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