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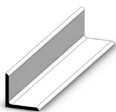
**– HARD TO FIND ITEMS –**

OUR MILL AND WAREHOUSE  
CONNECTIONS CAN HELP YOU FIND  
THE ITEMS YOU NEED.

**Most Hot-Rolled products can  
be galvanized or  
pickled and oiled with  
an approximate lead time  
of two weeks.**

# Merchant (Hot Roll) Bars & structurals

PAGE



## **Angles** . . . . . 5

Conforms to ASTM A36

Sizes ranging from:

1/2" x 1/2" x 1/8" to 8" x 8" x 1/2"



## **I-Beams** . . . . . 8

Conforms to ASTM A36

Designation Depth(in) x Wt/Ft(Lbs)

S 3" x ... 5.7 to S 12" x ... 31.8

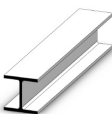


## **Jr Beams** . . . . . 8

Conforms to ASTM A36

Designation Depth(in) x Wt/Ft(Lbs)

M 3" x ... 2.9 to M 10" x ... 9.0



## **Wide Flange**

## **Beams** . . . . . 9

Conforms to A992/A572 Grade 50

Sizes ranging from:

W4" x ... to W18" x ...



## **Channels** . . . . . 11

Conforms to ASTM A36

Designation Depth(in) x Wt/Ft(Lbs)

C 3" x... 3.5# to C 15" x... 50.0#

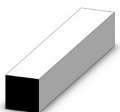


## **Flats** . . . . . 13

Conforms to ASTM A36

Sizes ranging from:

1/8" x 1/2" to 3" x 4-1/2"



## **Squares** . . . . . 18

Conforms to ASTM A36

Sizes ranging from:

3/8" to 3"



## **Rounds** . . . . . 18

Conforms to ASTM A36

Sizes ranging from:

1/4" to 6"

## **Grades**

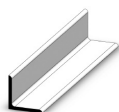
**A36** - Bars designed for use in structural applications. Minimum mechanical properties of 36 KSI yield strength and 58 to 80 KSI tensile strength are required.

**A992/A572 Grade 50** – This specification covers rolled steel structural shapes for use in building framing or bridges, or for general structural purposes. Minimum mechanical properties of 50 to 65 KSI yield strength and 65 KSI tensile strength are required.

# ANGLES - Bar Size

ASTM A36

Stock Lengths 20' – 40'

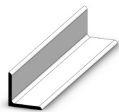


Size Inches	Weight Foot Lbs.	Estimate 20' Bar	Estimate 40' Bar
1/2 x 1/2 x 1/8 . . .	.38 . . .	7.60	
5/8 x 5/8 x 1/8 . . .	.48 . . .	9.60	
3/4 x 3/4 x 1/8 . . .	.59 . . .	11.80	
7/8 x 7/8 x 1/8 . . .	.70 . . .	14.00	
1 x 5/8 x 1/8 . . . .	.64 . . .	12.80	
1 x 3/4 x 1/8 . . . .	.70 . . .	14.00	
1 x 1 x 1/8 . . . . .	.80 . . .	16.00	
3/16 . . . . .	1.16 . . .	23.20	
1/4 . . . . .	1.49 . . .	29.80	
1-1/4 x 1-1/4 x 1/8 .	1.01 . . .	20.20	
3/16 . . . . .	1.48 . . .	29.60	
1/4 . . . . .	1.92 . . .	38.40	
1-1/2 x 1-1/2 x 1/8 .	1.23 . . .	24.60	
3/16 . . . . .	1.80 . . .	36.00 . .	72.00
1/4 . . . . .	2.34 . . .	46.80 . .	93.60
3/8 . . . . .	3.35 . . .	67.00	
1-3/4 x 1-3/4 x 1/8 .	1.44 . . .	28.80	
3/16 . . . . .	2.12 . . .	42.40	
1/4 . . . . .	2.77 . . .	55.40	
2 x 1-1/4 x 3/16 . . .	1.96 . . .	39.20	
1/4 . . . . .	2.55 . . .	51.00	
2 x 1-1/2 x 1/8 . . .	1.44 . . .	28.80	
3/16 . . . . .	2.12 . . .	42.40 . .	84.80
1/4 . . . . .	2.77 . . .	55.40 . .	110.80
2 x 2 x 1/8 . . . . .	1.65 . . .	33.00	
3/16 . . . . .	2.44 . . .	48.80 . .	97.60
1/4 . . . . .	3.19 . . .	63.80 . .	127.60
5/16 . . . . .	3.92 . . .	78.40	
3/8 . . . . .	4.70 . . .	94.00 . .	188.00
2-1/2 x 1-1/2 x 3/16	2.44 . . .	48.80	
1/4 . . . . .	3.19 . . .	63.80	
2-1/2 x 2 x 3/16 . . .	2.75 . . .	55.00	
1/4 . . . . .	3.62 . . .	72.40	
5/16 . . . . .	4.50 . . .	90.00	
3/8 . . . . .	5.30 . . .	106.00	
2-1/2 x 2-1/2 x 3/16	3.07 . . .	61.40	
1/4 . . . . .	4.10 . . .	82.00 . .	164.00
5/16 . . . . .	5.00 . . .	100.00	
3/8 . . . . .	5.90 . . .	118.00 .	236.00
1/2 . . . . .	7.70 . . .	154.00	
3 x 2 x 3/16 . . . . .	3.07 . . .	61.40 . . .	122.80
1/4 . . . . .	4.10 . . .	82.00 . . .	164.00
5/16 . . . . .	5.00 . . .	100.00	
3/8 . . . . .	5.90 . . .	118.00 . . .	236.00
1/2 . . . . .	7.70 . . .	154.00 . . .	308.00

# ANGLES - Structural

ASTM A36

Stock Lengths 20' – 40'

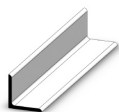


Size Inches	Weight Foot Lbs.	Estimate 20' Bar	Estimate 40' Bar
3 x 2-1/2 x 1/4 . . .	4.50 . . .	90.00 . . .	180.00
3/8 . . . . .	6.60 . . .	132.00 . . .	264.00
3 x 3 x 3/16 . . . .	3.71 . . .	74.20 . . .	148.40
1/4 . . . . .	4.90 . . .	98.00 . . .	196.00
5/16 . . . . .	6.10 . . .	122.00 . . .	244.00
3/8 . . . . .	7.20 . . .	144.00 . . .	288.00
1/2 . . . . .	9.40 . . .	188.00 . . .	376.00
3-1/2 x 2-1/2 x 1/4 .	4.90 . . .	98.00 . . .	196.00
3/8 . . . . .	7.20 . . .	144.00 . . .	288.00
1/2 . . . . .	9.40 . . .	188.00 . . .	376.00
3-1/2 x 3 x 1/4 . . .	5.40 . . .	108.00 . . .	216.00
5/16 . . . . .	6.60 . . .	132.00 . . .	264.00
3/8 . . . . .	7.90 . . .	158.00 . . .	316.00
1/2 . . . . .	10.20 . . .	204.00 . . .	408.00
3-1/2 x 3-1/2 x 1/4 .	5.80 . . .	116.00 . . .	232.00
5/16 . . . . .	7.20 . . .	144.00 . . .	288.00
3/8 . . . . .	8.50 . . .	170.00 . . .	340.00
1/2 . . . . .	11.10 . . .	222.00 . . .	444.00
4 x 3 x 1/4 . . . . .	5.80 . . .	116.00 . . .	232.00
5/16 . . . . .	7.20 . . .	144.00 . . .	288.00
3/8 . . . . .	8.50 . . .	170.00 . . .	340.00
1/2 . . . . .	11.10 . . .	222.00 . . .	444.00
4 x 3-1/2 x 1/4 . . .	6.20 . . .	124.00 . . .	248.00
5/16 . . . . .	7.70 . . .	154.00 . . .	308.02
3/8 . . . . .	9.10 . . .	182.00 . . .	363.98
1/2 . . . . .	11.90 . . .	238.00 . . .	476.02
4 x 4 x 1/4 . . . . .	6.60 . . .	132.00 . . .	264.00
5/16 . . . . .	8.20 . . .	163.99 . . .	327.98
3/8 . . . . .	9.80 . . .	196.01 . . .	392.02
1/2 . . . . .	12.80 . . .	256.00 . . .	512.02
5/8 . . . . .	15.7 . . . . .	313.99 . . .	627.98
3/4 . . . . .	18.50 . . .	370.01 . . .	740.02
5 x 3 x 1/4 . . . . .	6.60 . . .	132.00 . . .	264.00
5/16 . . . . .	8.20 . . .	164.00 . . .	328.00
3/8 . . . . .	9.80 . . .	196.00 . . .	392.00
1/2 . . . . .	12.80 . . .	256.00 . . .	512.00
5 x 3-1/2 x 1/4 . . .	7.00 . . .	139.99 . . .	279.98
5/16 . . . . .	8.70 . . .	174.00 . . .	348.00
3/8 . . . . .	10.40 . . .	208.01 . . .	416.02
1/2 . . . . .	13.60 . . .	271.99 . . .	543.98

## ANGLES - Structural

ASTM A36

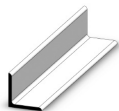
Stock Lengths 20' – 40'



Size Inches	Weight Foot Lbs.	Estimate 20' Bar	Estimate 40' Bar
5 x 5 x 5/16 . . . .	10.30 . . .	205.99..	411.98
3/8 . . . . .	12.30 . . .	246.00..	492.00
1/2 . . . . .	16.20 . . .	324.00..	648.00
6 x 3-1/2 x 5/16 . . .	9.80 . . .	196.00..	392.00
3/8 . . . . .	11.70 . . .	234.00..	468.00
1/2 . . . . .	15.30 . . .	306.00..	612.00
6 x 4 x 5/16 . . . . .	10.30 . . .	206.00..	412.00
3/8 . . . . .	12.30 . . .	246.00..	492.00
1/2 . . . . .	16.20 . . .	324.00..	648.00
5/8 . . . . .	20.00 . . .	400.00	
3/4 . . . . .	23.60 . . .	472.00..	944.02
6 x 6 x 3/8 . . . . .	14.90 . . .	298.01..	596.02
1/2 . . . . .	19.60 . . .	391.92..	783.98
5/8 . . . . .	24.20 . . .	484.01..	968.02
3/4 . . . . .	28.70 . . .	574.01..	1148.02
1 . . . . .	37.40 . . .	748.01..	1496.02
7 x 4 x 3/8 . . . . .	13.60 . . .	272.00..	544.00
1/2 . . . . .	17.90 . . .	358.00..	716.00
8 x 4 x 1/2 . . . . .	19.60 . . .	392.00..	784.00
8 x 6 x 1/2 . . . . .	23.00 . . .	460.00..	920.00
8 x 8 x 1/2 . . . . .	26.40 . . .	528.00..	1056.00

## ANGLES - Formed

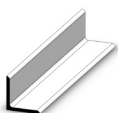
Produced from hot roll sheets,  
ASTM A1011 CS Type B



	Wt. Ea.
2 x 2 x 1/8 x 10' . . . . .	16.7
2-1/2 x 2-1/2 x 1/8 x 10'	22
3 x 2 x 1/8 x 10' . . . . .	22
3 x 3 x 1/8 x 10' . . . . .	25
4 x 2 x 1/8 x 10' . . . . .	25

# ANGLES - Galvanized

ASTM A36

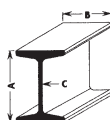


Size in Inches	Weight per Ft.	Estimate 20' bar
1-1/4 x 1-1/4 x 3/16 . . . . .	1.600 . . . . .	31.99
1-1/2 x 1-1/2 x 1/8 . . . . .	1.330 . . . . .	26.59
1-1/2 x 1-1/2 x 3/16 . . . . .	1.944 . . . . .	38.88
1-1/2 x 1-1/2 x 1/4 . . . . .	2.527 . . . . .	50.40
2 x 2 x 1/8 . . . . .	1.780 . . . . .	35.59
2 x 2 x 3/16 . . . . .	2.635 . . . . .	52.70
2 x 2 x 1/4 . . . . .	3.445 . . . . .	68.90
2-1/2 x 2 x 1/4 . . . . .	3.910 . . . . .	78.19
2-1/2 x 2-1/2 x 3/16 . . . . .	3.316 . . . . .	66.32
2-1/2 x 2-1/2 x 1/4 . . . . .	4.430 . . . . .	88.60
3 x 3 x 1/4 . . . . .	5.292 . . . . .	105.84
4 x 4 x 1/4 . . . . .	7.130 . . . . .	142.61

# STANDARD I-BEAMS

A992 / A572-50

20' & 40' Stock Lengths



A DESIGNATION Depth/Inches x /Wt./Ft./Lbs.	C WEB Thickness Inches	B Flange Inches		Area Sq. In.
		Width	Thickness	
S 3 x . . . . . 5.7	.170	2.330	0.260	1.67
	.349	2.509	0.260	2.21
S 4 x . . . . . 7.7	.193	2.663	0.293	2.26
	.326	2.796	0.293	2.79
S 5 x . . . . . 10.0	.214	3.004	0.326	2.94
S 6 x . . . . . 12.5	.232	3.332	0.359	3.67
	.465	3.565	0.359	5.07
S 8 x . . . . . 18.4	.271	4.001	0.425	5.41
	.441	4.171	0.425	6.77
S10 x . . . . . 25.4	.311	4.661	0.491	7.46
	.594	4.944	0.491	10.30
S12 x . . . . . 31.8	.350	5.000	0.544	9.35

# JR BEAMS

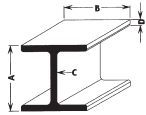
A992 / A572-50

M 3 x . . . . . 2.9	.090	2.250	.130	.853
M 4 x . . . . . 3.2	.092	2.250	.130	.940
M 6 x . . . . . 4.4	.114	1.844	.171	1.290
M 8 x . . . . . 6.5	.135	2.281	.189	1.920
M 10 x . . . . . 9.0	.157	2.690	.206	2.650



# WIDE FLANGE BEAMS

A992 / A572-50



## STOCK LENGTHS

Size 12" and Smaller 20' & 40'

Cut To Length Available

Nominal Size	Weight Per Ft. Lb	A Depth Inches	B Flange Width Inches	D Flange Thickness Inches	C Web Thickness Inches
<b>W 4 x . .</b>	<b>13.0</b>	<b>4.16</b>	<b>4.060</b>	<b>.345</b>	<b>.280</b>
<b>W 5 x . .</b>	<b>16.0</b>	<b>5.01</b>	<b>5.000</b>	<b>.360</b>	<b>.240</b>
	<b>19.0</b>	<b>5.15</b>	<b>5.030</b>	<b>.430</b>	<b>.270</b>
<b>W 6 x . .</b>	<b>9.0</b>	<b>5.90</b>	<b>3.940</b>	<b>.215</b>	<b>.170</b>
	<b>12.0</b>	<b>6.03</b>	<b>4.000</b>	<b>.280</b>	<b>.230</b>
	<b>15.0</b>	<b>5.90</b>	<b>5.990</b>	<b>.260</b>	<b>.230</b>
	<b>16.0</b>	<b>6.28</b>	<b>4.030</b>	<b>.405</b>	<b>.260</b>
	<b>20.0</b>	<b>6.20</b>	<b>6.020</b>	<b>.365</b>	<b>.260</b>
	<b>25.0</b>	<b>6.38</b>	<b>6.080</b>	<b>.455</b>	<b>.320</b>
<b>W 8 x . . .</b>	<b>10.0</b>	<b>7.89</b>	<b>3.940</b>	<b>.205</b>	<b>.170</b>
	<b>13.0</b>	<b>7.99</b>	<b>4.000</b>	<b>.255</b>	<b>.230</b>
	<b>15.0</b>	<b>8.11</b>	<b>4.015</b>	<b>.315</b>	<b>.245</b>
	<b>18.0</b>	<b>8.14</b>	<b>5.250</b>	<b>.330</b>	<b>.230</b>
	<b>21.0</b>	<b>8.28</b>	<b>5.270</b>	<b>.400</b>	<b>.250</b>
	<b>24.0</b>	<b>7.93</b>	<b>6.495</b>	<b>.400</b>	<b>.245</b>
	<b>28.0</b>	<b>8.06</b>	<b>6.535</b>	<b>.465</b>	<b>.285</b>
	<b>31.0</b>	<b>8.00</b>	<b>7.995</b>	<b>.435</b>	<b>.285</b>
	<b>35.0</b>	<b>8.12</b>	<b>8.020</b>	<b>.495</b>	<b>.310</b>
	<b>40.0</b>	<b>8.25</b>	<b>8.070</b>	<b>.560</b>	<b>.360</b>
	<b>48.0</b>	<b>8.50</b>	<b>8.110</b>	<b>.685</b>	<b>.400</b>
	<b>67.0</b>	<b>9.00</b>	<b>8.270</b>	<b>.935</b>	<b>.570</b>
<b>W10 x. .</b>	<b>12.0</b>	<b>9.87</b>	<b>3.960</b>	<b>.210</b>	<b>.190</b>
	<b>15.0</b>	<b>9.99</b>	<b>4.000</b>	<b>.270</b>	<b>.230</b>
	<b>19.0</b>	<b>10.24</b>	<b>4.020</b>	<b>.395</b>	<b>.250</b>
	<b>22.0</b>	<b>10.17</b>	<b>5.750</b>	<b>.360</b>	<b>.240</b>
	<b>26.0</b>	<b>10.33</b>	<b>5.770</b>	<b>.440</b>	<b>.260</b>
	<b>30.0</b>	<b>10.47</b>	<b>5.810</b>	<b>.510</b>	<b>.300</b>
	<b>33.0</b>	<b>9.73</b>	<b>7.960</b>	<b>.435</b>	<b>.290</b>
	<b>45.0</b>	<b>10.10</b>	<b>8.020</b>	<b>.620</b>	<b>.350</b>
	<b>49.0</b>	<b>9.98</b>	<b>10.000</b>	<b>.560</b>	<b>.340</b>
	<b>77.0</b>	<b>10.60</b>	<b>10.190</b>	<b>.870</b>	<b>.530</b>

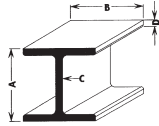
# WIDE FLANGE BEAMS

A992/A572-50

Stock Lengths

Size 12" and Smaller 20' & 40'

Cut To Length Available



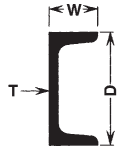
Nominal Size	Weight Per Ft. Lb	A Depth Inches	B Flange Width Inches	D Flange Thickness Inches	C Web Thickness Inches
W12 x.	14.0	11.91	3.970	.225	.200
	16.0	11.99	3.990	.265	.220
	19.0	12.16	4.005	.350	.235
	22.0	12.31	4.030	.425	.260
	26.0	12.22	6.490	.380	.230
	30.0	12.34	6.520	.440	.260
	35.0	12.50	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
	65.0	12.12	12.000	.605	.390
	W14 x.	22.0	13.74	5.000	.335
30.0		13.84	6.730	.385	.270
38.0		14.10	6.770	.515	.310
W16 x.	26.0	15.69	5.500	.345	.250
	31.0	15.88	5.525	.440	.275
	36.0	15.88	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
W18 x.	67.0	16.33	10.235	.665	.395
	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

Larger Sizes Available Upon Request

# C CHANNELS (Structural)

ASTM A36

Stock Lengths: 20' & 40'



D	T	W		
Designation	Web	Flange		
Depth of	Thickness	Width	Weight	
Channel & Wt. Per	Inches	Inches	Per 20'	
Foot in Lbs.				
C 3" x.	3.5	.130	1.350	70
	4.1	.170	1.410	82
	5.0	.258	1.498	100
	6.0	.356	1.596	120
C 4" x.	4.5	.137	1.520	90
	5.4	.184	1.584	108
	7.25	.321	1.721	145
C 5" x.	6.7	.190	1.750	134
	9.0	.325	1.885	180
C 6" x.	8.2	.200	1.920	164
	10.5	.314	2.034	210
	13.0	.437	2.157	260
C 7" x.	9.8	.210	2.090	196
	12.25	.314	2.194	245
	14.75	.419	2.299	295
C 8" x.	8.5	.179	1.874	170
	11.5	.220	2.260	230
	13.75	.303	2.343	275
	18.75	.487	2.527	375
C 9" x.	13.4	.233	2.433	268
C 10" x.	15.3	.240	2.600	306
	20.0	.379	2.739	400
	25.0	.526	2.886	500
	30.0	.673	3.033	600
C 12" x.	10.6	.190	1.500	212
	20.7	.282	2.942	414
	25.0	.387	3.047	500
	30.0	.510	3.170	600
C 15" x.	33.9	.400	3.400	678
	40.0	.520	3.520	800
	50.0	.716	3.716	1000

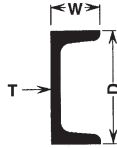
# BAR CHANNELS

ASTM A36

Size Inches	Wt. Lbs. Per Ft.	Wt. Per Length
3/4 x 3/8 x 1/8 . . . . .	.56 . . . . .	11.2
1 x 1/2 x 1/8 . . . . .	.84 . . . . .	16.8
1-1/4 x 1/2 x 1/8 . . . . .	.99 . . . . .	19.8
1-1/2 x 1/2 x 1/8 . . . . .	1.12 . . . . .	22.4
1-1/2 x 9/16 x 3/16 . . . . .	1.45 . . . . .	29.0
1-1/2 x 3/4 x 1/8 . . . . .	1.17 . . . . .	23.4
2 x 1/2 x 1/8 . . . . .	1.43 . . . . .	28.6
2 x 9/16 x 3/16 . . . . .	1.86 . . . . .	37.2
2 x 5/8 x 1/4 . . . . .	2.28 . . . . .	45.6
2 x 1 x 1/8 . . . . .	1.59 . . . . .	31.8
2 x 1 x 3/16 . . . . .	2.32 . . . . .	46.4
2-1/2 x 5/8 x 3/16 . . . . .	2.27 . . . . .	45.4

# MC CHANNELS (Ship & Car)

ASTM A36



D Designation Depth of Channel & Wt. Per Foot in Lbs.	T Web Thickness in Inches	W Flange Width in Inches	Weight 20' Pc.
<b>MC 3</b>	7.1 . .	0.312 . .	1.938 . . 142
<b>MC 4</b>	13.8 . .	0.500 . .	2.500 . . 276
<b>MC 6</b>	12.0 . .	0.310 . .	2.497 . . 240
	15.3 . .	0.340 . .	3.500 . . 306
	16.3 . .	0.375 . .	3.000 . . 326
<b>MC 7</b>	22.7 . .	0.503 . .	3.603 . . 454
<b>MC 8</b>	18.7 . .	0.353 . .	2.978 . . 374
	20.0 . .	0.400 . .	3.025 . . 400
	22.8 . .	0.427 . .	3.502 . . 456
<b>MC 10</b>	8.4 . .	0.170 . .	1.500 . . 168
<b>MC 12</b>	10.6 . .	0.190 . .	1.500 . . 212
	14.3 . .	0.250 . .	2.125 . . 286
	31 . .	0.370 . .	3.670 . . 620

# TEE BARS

Size Inches	Wt. Lbs. Per Ft.	20' Bar
1 x 1 x 1/8 . . . . .	0.850 . . . . .	17.00
1-1/2 x 1-1/2 x 3/16 . . . . .	1.900 . . . . .	38.00
2 x 2 x 1/4 . . . . .	3.620 . . . . .	72.40

# FLATS

ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
<b><u>1/8 x</u></b>		
1/2 . . . . .	0.213 . . . . .	4.26
5/8 . . . . .	0.266 . . . . .	5.32
3/4 . . . . .	0.319 . . . . .	6.38
7/8 . . . . .	0.372 . . . . .	7.44
1 . . . . .	0.425 . . . . .	8.50
1-1/4 . . . . .	0.531 . . . . .	10.62
1-1/2 . . . . .	0.638 . . . . .	12.76
1-3/4 . . . . .	0.744 . . . . .	14.88
2 . . . . .	0.850 . . . . .	17.00
2-1/2 . . . . .	1.063 . . . . .	21.26
3 . . . . .	1.275 . . . . .	25.50
3-1/2 . . . . .	1.488 . . . . .	29.76
4 . . . . .	1.700 . . . . .	34.00
4-1/2 . . . . .	1.913 . . . . .	38.27
5 . . . . .	2.125 . . . . .	42.50
5-1/2 . . . . .	2.338 . . . . .	46.76
6 . . . . .	2.550 . . . . .	51.00
8 . . . . .	3.400 . . . . .	68.00
10 . . . . .	4.250 . . . . .	85.00
12 . . . . .	5.100 . . . . .	102.00
<b><u>3/16 x</u></b>		
1/2 . . . . .	0.319 . . . . .	6.38
5/8 . . . . .	0.398 . . . . .	7.96
3/4 . . . . .	0.478 . . . . .	9.56
1 . . . . .	0.638 . . . . .	12.76
1-1/4 . . . . .	0.797 . . . . .	15.94
1-1/2 . . . . .	0.956 . . . . .	19.12
1-3/4 . . . . .	1.116 . . . . .	22.32
2 . . . . .	1.275 . . . . .	25.50
2-1/4 . . . . .	1.434 . . . . .	28.68
2-1/2 . . . . .	1.594 . . . . .	31.88
2-3/4 . . . . .	1.753 . . . . .	35.06
3 . . . . .	1.913 . . . . .	38.26
3-1/2 . . . . .	2.231 . . . . .	44.62
4 . . . . .	2.550 . . . . .	51.00
4-1/2 . . . . .	2.865 . . . . .	57.30
5 . . . . .	3.188 . . . . .	63.77
5-1/2 . . . . .	3.508 . . . . .	70.15
6 . . . . .	3.826 . . . . .	76.51
8 . . . . .	5.100 . . . . .	102.00

# FLATS (cont.)

ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
<b><u>1/4 x</u></b>		
1/2. . . . .	0.425 . . . .	8.50
5/8. . . . .	0.532 . . . .	10.63
3/4. . . . .	0.638 . . . .	12.77
1 . . . . .	0.850 . . . .	17.00
1-1/4. . . . .	1.063 . . . .	21.26
1-1/2. . . . .	1.275 . . . .	25.50
1-3/4. . . . .	1.488 . . . .	29.76
2 . . . . .	1.700 . . . .	34.00
2-1/4. . . . .	1.913 . . . .	38.26
2-1/2. . . . .	2.125 . . . .	42.50
2-3/4. . . . .	2.338 . . . .	46.76
3 . . . . .	2.550 . . . .	51.00
3-1/4. . . . .	2.760 . . . .	55.20
3-1/2. . . . .	2.976 . . . .	59.52
3-3/4. . . . .	3.190 . . . .	63.79
4 . . . . .	3.400 . . . .	67.99
4-1/2. . . . .	3.826 . . . .	76.51
5 . . . . .	4.250 . . . .	85.00
5-1/2. . . . .	4.675 . . . .	93.50
6 . . . . .	5.100 . . . .	102.00
7 . . . . .	5.950 . . . .	118.99
8 . . . . .	6.800 . . . .	136.00
9 . . . . .	7.650 . . . .	153.00
10 . . . . .	8.500 . . . .	170.23
11 . . . . .	9.350 . . . .	187.00
12 . . . . .	10.200 . . . .	204.00
<b><u>5/16 x</u></b>		
3/4. . . . .	0.797 . . . .	15.94
1 . . . . .	1.063 . . . .	21.26
1-1/4. . . . .	1.328 . . . .	26.57
1-1/2. . . . .	1.594 . . . .	31.88
1-3/4. . . . .	1.859 . . . .	37.18
2 . . . . .	2.125 . . . .	42.50
2-1/2. . . . .	2.656 . . . .	53.11
3 . . . . .	3.188 . . . .	63.77
3-1/2. . . . .	3.719 . . . .	74.38
4 . . . . .	4.250 . . . .	85.00
4-1/2. . . . .	4.781 . . . .	95.62
5 . . . . .	5.314 . . . .	106.27
6 . . . . .	6.376 . . . .	127.51

# FLATS (cont.)

ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
<b><u>3/8 x</u></b>		
1/2. . . . .	0.638 . . . .	12.77
3/4. . . . .	0.956 . . . .	19.13
1 . . . . .	1.275 . . . .	25.50
1-1/4. . . . .	1.594 . . . .	31.87
1-3/8. . . . .	1.756 . . . .	35.11
1-1/2. . . . .	1.913 . . . .	38.26
1-3/4. . . . .	2.231 . . . .	44.62
2 . . . . .	2.550 . . . .	51.00
2-1/4. . . . .	2.869 . . . .	57.38
2-1/2. . . . .	3.188 . . . .	63.77
2-3/4. . . . .	3.506 . . . .	70.13
3 . . . . .	3.826 . . . .	76.51
3-1/4. . . . .	4.186 . . . .	83.71
3-1/2. . . . .	4.463 . . . .	89.26
4 . . . . .	5.100 . . . .	102.00
4-1/2. . . . .	5.738 . . . .	114.77
5 . . . . .	6.376 . . . .	127.51
5-1/2. . . . .	7.013 . . . .	140.26
6 . . . . .	7.650 . . . .	153.00
6-1/2. . . . .	8.296 . . . .	165.91
7 . . . . .	8.930 . . . .	178.61
8 . . . . .	10.200 . . . .	204.00
9 . . . . .	11.479 . . . .	229.60
10 . . . . .	12.750 . . . .	255.00
12 . . . . .	15.300 . . . .	306.00
<b><u>1/2 x</u></b>		
3/4. . . . .	1.276 . . . .	25.51
1 . . . . .	1.700 . . . .	34.00
1-1/4. . . . .	2.125 . . . .	42.50
1-1/2. . . . .	2.550 . . . .	51.00
1-3/4. . . . .	2.975 . . . .	59.50
2 . . . . .	3.400 . . . .	68.00
2-1/4. . . . .	3.826 . . . .	76.51
2-1/2. . . . .	4.250 . . . .	85.00
2-3/4. . . . .	4.675 . . . .	93.50
3 . . . . .	5.100 . . . .	102.00
3-1/2. . . . .	5.950 . . . .	118.99
4 . . . . .	6.800 . . . .	136.01
4-1/2. . . . .	7.650 . . . .	153.00
5 . . . . .	8.500 . . . .	170.00
5-1/2. . . . .	9.350 . . . .	187.01
6 . . . . .	10.200 . . . .	204.00
7 . . . . .	11.900 . . . .	238.01
8 . . . . .	13.600 . . . .	271.99
9 . . . . .	15.300 . . . .	306.00
10 . . . . .	17.000 . . . .	340.01
11 . . . . .	18.700 . . . .	373.99
12 . . . . .	20.400 . . . .	408.00

# FLATS (cont.)

ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
<b><u>5/8 x</u></b>		
1 . . . . .	2.125 . . . . .	42.50
1-1/8 . . . . .	2.393 . . . . .	47.86
1-1/4 . . . . .	2.656 . . . . .	53.11
1-1/2 . . . . .	3.188 . . . . .	63.77
1-3/4 . . . . .	3.719 . . . . .	74.38
2 . . . . .	4.250 . . . . .	85.01
2-1/2 . . . . .	5.314 . . . . .	106.27
3 . . . . .	6.376 . . . . .	127.51
3-1/2 . . . . .	7.438 . . . . .	148.75
4 . . . . .	8.500 . . . . .	169.99
4-1/2 . . . . .	9.563 . . . . .	191.26
5 . . . . .	10.625 . . . . .	212.50
5-1/2 . . . . .	11.690 . . . . .	233.76
6 . . . . .	12.750 . . . . .	255.00
7 . . . . .	14.880 . . . . .	297.50
8 . . . . .	17.000 . . . . .	340.01
9 . . . . .	19.130 . . . . .	382.60
10 . . . . .	21.250 . . . . .	424.99
12 . . . . .	25.500 . . . . .	510.00
<b><u>3/4 x</u></b>		
1 . . . . .	2.550 . . . . .	51.00
1-1/4 . . . . .	3.188 . . . . .	63.77
1-1/2 . . . . .	3.826 . . . . .	76.51
1-3/4 . . . . .	4.463 . . . . .	88.26
2 . . . . .	5.100 . . . . .	102.00
2-1/4 . . . . .	5.743 . . . . .	114.86
2-1/2 . . . . .	6.376 . . . . .	127.51
2-3/4 . . . . .	7.019 . . . . .	140.38
3 . . . . .	7.650 . . . . .	153.00
3-1/2 . . . . .	8.926 . . . . .	178.51
4 . . . . .	10.200 . . . . .	204.00
4-1/2 . . . . .	11.480 . . . . .	229.51
5 . . . . .	12.750 . . . . .	255.00
6 . . . . .	15.300 . . . . .	306.00
7 . . . . .	17.850 . . . . .	357.00
8 . . . . .	20.400 . . . . .	408.00
9 . . . . .	22.950 . . . . .	459.00
10 . . . . .	25.500 . . . . .	510.00
12 . . . . .	30.600 . . . . .	612.00
<b><u>7/8 x</u></b>		
1-3/4 . . . . .	5.206 . . . . .	104.11



# FLATS (cont.)

ASTM A36

Stock Length 20'

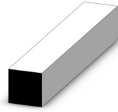


Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
<b>1 x</b>		
1-1/4 . . . . .	4.250 . . . . .	85.01
1-1/2 . . . . .	5.100 . . . . .	102.00
1-3/4 . . . . .	5.950 . . . . .	118.99
2 . . . . .	6.800 . . . . .	136.01
2-1/2 . . . . .	8.500 . . . . .	169.99
2-3/4 . . . . .	9.350 . . . . .	187.01
3 . . . . .	10.200 . . . . .	204.00
3-1/2 . . . . .	11.900 . . . . .	238.01
4 . . . . .	13.600 . . . . .	271.99
4-1/2 . . . . .	15.300 . . . . .	306.00
5 . . . . .	17.000 . . . . .	340.01
5-1/2 . . . . .	18.700 . . . . .	374.00
6 . . . . .	20.400 . . . . .	408.00
7 . . . . .	23.800 . . . . .	475.99
8 . . . . .	27.200 . . . . .	544.01
9 . . . . .	30.600 . . . . .	612.00
10 . . . . .	34.000 . . . . .	679.99
12 . . . . .	40.800 . . . . .	816.00
<b>1-1/4 x</b>		
2 . . . . .	8.500 . . . . .	169.99
2-1/2 . . . . .	10.625 . . . . .	212.50
3 . . . . .	12.750 . . . . .	255.00
3-1/2 . . . . .	14.890 . . . . .	297.79
4 . . . . .	17.000 . . . . .	340.01
5 . . . . .	21.249 . . . . .	424.99
6 . . . . .	25.500 . . . . .	510.00
8 . . . . .	34.000 . . . . .	679.99
<b>1-1/2 x</b>		
2 . . . . .	10.200 . . . . .	204.00
2-1/2 . . . . .	12.750 . . . . .	255.00
3 . . . . .	15.300 . . . . .	306.00
3-1/2 . . . . .	17.850 . . . . .	357.00
4 . . . . .	20.400 . . . . .	408.00
5 . . . . .	25.500 . . . . .	510.00
6 . . . . .	30.600 . . . . .	612.00
<b>1-3/4 x</b>		
4 . . . . .	23.820 . . . . .	476.40
4-1/2 . . . . .	26.780 . . . . .	535.60
<b>2 x</b>		
2-1/2 . . . . .	17.000 . . . . .	340.01
3 . . . . .	20.400 . . . . .	408.00
4 . . . . .	27.200 . . . . .	544.01
5 . . . . .	34.000 . . . . .	679.99
6 . . . . .	40.800 . . . . .	816.00
<b>3 x</b>		
4-1/2 . . . . .	45.940 . . . . .	918.90

# SQUARES

ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
3/8 . . . . .	0.478 . . .	9.56
1/2 . . . . .	0.850 . . .	16.99
5/8 . . . . .	1.330 . . .	26.59
3/4 . . . . .	1.910 . . .	38.21
7/8 . . . . .	2.600 . . .	52.01
1 . . . . .	3.400 . . .	67.99
1-1/4 . . . . .	5.310 . . .	106.20
1-1/2 . . . . .	7.650 . . .	153.00
2 (RND CORNER)	13.600 . . .	272.00
2-1/2 . . . . .	21.250 . . .	425.00
3 . . . . .	30.641 . . .	612.82

# ROUNDS

7/16 & under-low carbon

uncertified; 1/2 & over ASTM A36

Stock Length 20'



Size Inches	Weight Per Ft. Lbs.	Wt. of 20' Bar
1/4 . . . . .	0.167 . . .	3.34
5/16 . . . . .	0.261 . . .	5.23
3/8 . . . . .	0.376 . . .	7.51
7/16 . . . . .	0.511 . . .	10.22
1/2 . . . . .	0.668 . . .	13.36
9/16 . . . . .	0.845 . . .	16.90
5/8 . . . . .	1.040 . . .	20.81
11/16 . . . . .	1.260 . . .	25.20
3/4 . . . . .	1.500 . . .	30.00
7/8 . . . . .	2.040 . . .	40.80
1 . . . . .	2.670 . . .	53.40
1-1/8 . . . . .	3.380 . . .	67.61
1-1/4 (24'1" AVAIL) . .	4.170 . . .	83.40
1-3/8 . . . . .	5.050 . . .	100.99
1-1/2 . . . . .	6.010 . . .	120.19
1-3/4 . . . . .	8.180 . . .	163.61
2 . . . . .	10.680 . . .	213.60
2-1/4 . . . . .	13.520 . . .	270.41
2-3/8 . . . . .	15.060 . . .	301.20
2-1/2 . . . . .	16.690 . . .	333.79
2-3/4 . . . . .	20.190 . . .	403.80
3 . . . . .	24.030 . . .	480.60
6 . . . . .	96.224 . . .	1924.00

Most hot finished items can be ordered pickled and oiled or galvanized upon request.

# Cold Finished Carbon Steel Bars

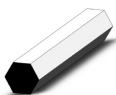
PAGE



## **Flats** . . . . . 21

Alloys: 1018

**Sizes ranging from:**  
1/8" x 1/4" to 3" x 6"



## **Hexagons** . . . . . 26

Alloys: 1018, 12L14, 1144

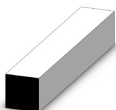
**Sizes ranging from:**  
7/16" to 2"



## **Rounds** . . . . . 27

Alloys: 1018, 1045, 12L14, 1144, 4140, 4142

**Sizes ranging from:**  
1/8" to 6"



## **Squares** . . . . . 29

Alloys: 1018

**Sizes ranging from:**  
1/8" to 4"

Cold finished bars are produced by cold drawing oversized hot rolled bar (that have been cleaned to remove scale) through dies to the required size. This process gives cold finished bars a clean surface finish with tighter tolerances and higher mechanical properties than hot rolled steels of comparable chemistry.

## Grades

**1018** – A low carbon steel with medium manganese content. This alloy has good case hardening properties and fair machinability. Conforms to ASTM A108. Identification color: Green

**1045** – A medium carbon steel having higher strength than 1018. Responds well to heat-treatment. Commonly used for shafts, gears and bolts. Conforms to ASTM A108. Identification color: Red

**12L14** – A low carbon steel with lead added to greatly improve machining properties. Conforms to ASTM A108. Identification color: White

**1144 Stress Relieved** – This grade of bar has been worked to produce high mechanical properties. The bars are then specially treated to relieve stresses caused by cold working. The steels have high strength, hardness, and wearability usually only associated with heat treated bars. Conforms to ASTM A311. Identification color: Yellow

**4140/4142** – This medium carbon, chromium-molybdenum steel has been annealed and cold drawn, and has a high hardenability. Prior to cold drawing, the material is softened from the mill structure to a pearlite structure. This softening process improves ductility and machinability. Conforms to ASTM A108. Identification color: Gold

## Random Lengths

Due to the nature of cold finishing, bars may come in random lengths (i.e. 12' could be 10' to 14'). Normally 11'6" to 12'6". If you have special requirements, please ask a sales associate.

# COLD ROLLED FLAT

12' Random

ASTM A108 / 1018 Alloy



Size Inches	Weight Per Ft. Lbs.	12' Wt.
----------------	------------------------	------------

## 1/8 x

1/4. . . . .	0.107 . . . . .	1.28
3/8. . . . .	0.160 . . . . .	1.92
1/2. . . . .	0.213 . . . . .	2.56
5/8. . . . .	0.266 . . . . .	3.19
3/4. . . . .	0.319 . . . . .	3.83
7/8. . . . .	0.372 . . . . .	4.46
1 . . . . .	0.425 . . . . .	5.10
1-1/4. . . . .	0.531 . . . . .	6.37
1-1/2. . . . .	0.638 . . . . .	7.66
1-3/4. . . . .	0.744 . . . . .	8.93
2 . . . . .	0.850 . . . . .	10.20
2-1/4. . . . .	0.956 . . . . .	11.47
2-1/2. . . . .	1.063 . . . . .	12.76
3 . . . . .	1.275 . . . . .	15.30
4 . . . . .	1.700 . . . . .	20.40
6 . . . . .	2.550 . . . . .	30.60

## 3/16 x

3/8. . . . .	0.239 . . . . .	2.87
1/2. . . . .	0.319 . . . . .	3.83
5/8. . . . .	0.398 . . . . .	4.78
3/4. . . . .	0.478 . . . . .	5.74
1 . . . . .	0.638 . . . . .	7.66
1-1/4. . . . .	0.797 . . . . .	9.56
1-1/2. . . . .	0.956 . . . . .	11.47
2 . . . . .	1.275 . . . . .	15.30
2-1/2. . . . .	1.594 . . . . .	19.13
3 . . . . .	1.913 . . . . .	22.96
3-1/2. . . . .	2.231 . . . . .	26.77
4 . . . . .	2.550 . . . . .	30.60
5 . . . . .	3.188 . . . . .	38.26
6 . . . . .	3.825 . . . . .	45.90

# COLD ROLLED FLAT

12' Random

ASTM A108 / 1018 Alloy



Size Inches	Weight Per Ft. Lbs.	12' Wt.
----------------	------------------------	------------

## 1/4 x

3/8. . . . .	0.319 . . . . .	3.83
1/2. . . . .	0.425 . . . . .	5.10
5/8. . . . .	0.531 . . . . .	6.37
3/4. . . . .	0.638 . . . . .	7.66
7/8. . . . .	0.744 . . . . .	8.93
1 . . . . .	0.850 . . . . .	10.20
1-1/8. . . . .	0.956 . . . . .	11.47
1-1/4. . . . .	1.063 . . . . .	12.76
1-3/8. . . . .	1.170 . . . . .	14.04
1-1/2. . . . .	1.275 . . . . .	15.30
1-5/8. . . . .	1.381 . . . . .	16.57
1-3/4. . . . .	1.488 . . . . .	17.86
2 . . . . .	1.700 . . . . .	20.40
2-1/4. . . . .	1.913 . . . . .	22.96
2-1/2. . . . .	2.125 . . . . .	25.50
3 . . . . .	2.550 . . . . .	30.60
3-1/2. . . . .	2.975 . . . . .	35.70
4 . . . . .	3.400 . . . . .	40.80
4-1/2. . . . .	3.825 . . . . .	45.90
5 . . . . .	4.250 . . . . .	51.00
6 . . . . .	5.100 . . . . .	61.20
8 . . . . .	6.800 . . . . .	81.60
10 . . . . .	8.500 . . . . .	102.00
12 . . . . .	10.200 . . . . .	122.40

## 5/16 x

3/8. . . . .	0.398 . . . . .	4.78
1/2. . . . .	0.531 . . . . .	6.37
3/4. . . . .	0.797 . . . . .	9.56
7/8. . . . .	0.931 . . . . .	11.17
1 . . . . .	1.063 . . . . .	12.76
1-1/4. . . . .	1.328 . . . . .	15.94
1-1/2. . . . .	1.594 . . . . .	19.13
1-3/4. . . . .	1.859 . . . . .	22.31
2 . . . . .	2.125 . . . . .	25.50
3 . . . . .	3.188 . . . . .	38.26
4 . . . . .	4.250 . . . . .	51.00
6 . . . . .	6.375 . . . . .	76.50

# COLD ROLLED FLAT

12' Random

ASTM A108 / 1018 Alloy



Size Inches	Weight Per Ft. Lbs.	12' Wt.
<b><u>3/8 x</u></b>		
1/2. . . . .	0.638 . . . . .	7.66
5/8. . . . .	0.797 . . . . .	9.56
3/4. . . . .	0.956 . . . . .	11.47
1 . . . . .	1.275 . . . . .	15.30
1-1/4. . . . .	1.594 . . . . .	19.13
1-1/2. . . . .	1.913 . . . . .	22.96
1-3/4. . . . .	2.231 . . . . .	26.77
2 . . . . .	2.550 . . . . .	30.60
2-1/2. . . . .	3.188 . . . . .	38.26
3 . . . . .	3.830 . . . . .	45.96
3-1/2. . . . .	4.463 . . . . .	53.56
4 . . . . .	5.100 . . . . .	61.20
4-1/2. . . . .	5.738 . . . . .	68.86
5 . . . . .	6.376 . . . . .	76.51
6 . . . . .	7.650 . . . . .	91.80
8 . . . . .	10.200 . . . . .	122.40
10 . . . . .	12.750 . . . . .	153.00
12 . . . . .	15.300 . . . . .	183.60
<b><u>1/2 x</u></b>		
5/8. . . . .	1.063 . . . . .	12.76
3/4. . . . .	1.276 . . . . .	15.30
7/8. . . . .	1.488 . . . . .	17.86
1 . . . . .	1.700 . . . . .	20.40
1-1/4. . . . .	2.125 . . . . .	25.50
1-1/2. . . . .	2.550 . . . . .	30.60
1-3/4. . . . .	2.975 . . . . .	35.70
2 . . . . .	3.400 . . . . .	40.80
2-1/4. . . . .	3.825 . . . . .	45.91
2-1/2. . . . .	4.250 . . . . .	51.00
2-3/4. . . . .	4.675 . . . . .	56.10
3 . . . . .	5.100 . . . . .	61.20
3-1/2. . . . .	5.950 . . . . .	71.40
4 . . . . .	6.800 . . . . .	81.60
4-1/2. . . . .	7.650 . . . . .	91.80
5 . . . . .	8.500 . . . . .	102.00
6 . . . . .	10.200 . . . . .	122.40
7 . . . . .	11.900 . . . . .	142.80
8 . . . . .	13.600 . . . . .	163.20
10 . . . . .	17.000 . . . . .	204.00
12 . . . . .	20.400 . . . . .	244.80

# COLD ROLLED FLAT

12' Random

ASTM A108 / 1018 Alloy



Size Inches	Weight Per Ft. Lbs.	12' Wt.
<b><u>5/8 x</u></b>		
3/4 . . . . .	1.594 . . . . .	19.12
1 . . . . .	2.125 . . . . .	25.50
1-1/4 . . . . .	2.656 . . . . .	31.87
1-1/2 . . . . .	3.188 . . . . .	38.26
1-3/4 . . . . .	3.719 . . . . .	44.63
2 . . . . .	4.250 . . . . .	51.00
2-1/4 . . . . .	4.788 . . . . .	57.34
2-1/2 . . . . .	5.314 . . . . .	63.76
3 . . . . .	6.376 . . . . .	76.51
3-1/2 . . . . .	7.439 . . . . .	89.27
4 . . . . .	8.498 . . . . .	101.97
5 . . . . .	10.625 . . . . .	127.50
6 . . . . .	12.750 . . . . .	153.00
<b><u>3/4 x</u></b>		
1 . . . . .	2.550 . . . . .	30.60
1-1/4 . . . . .	3.188 . . . . .	38.26
1-1/2 . . . . .	3.826 . . . . .	45.90
1-3/4 . . . . .	4.462 . . . . .	53.55
2 . . . . .	5.100 . . . . .	61.20
2-1/4 . . . . .	5.738 . . . . .	68.86
2-1/2 . . . . .	6.376 . . . . .	76.51
3 . . . . .	7.650 . . . . .	91.80
3-1/2 . . . . .	8.926 . . . . .	107.11
4 . . . . .	10.200 . . . . .	122.40
4-1/2 . . . . .	11.476 . . . . .	137.71
5 . . . . .	12.750 . . . . .	153.00
6 . . . . .	15.300 . . . . .	183.60
7 . . . . .	17.867 . . . . .	214.40
8 . . . . .	20.400 . . . . .	244.80
10 . . . . .	25.000 . . . . .	300.00
12 . . . . .	30.600 . . . . .	367.20
<b><u>1 x</u></b>		
1-1/4 . . . . .	4.250 . . . . .	51.00
1-3/8 . . . . .	4.679 . . . . .	56.15
1-1/2 . . . . .	5.100 . . . . .	61.20
1-3/4 . . . . .	5.950 . . . . .	71.40
2 . . . . .	6.800 . . . . .	81.60
2-1/4 . . . . .	7.650 . . . . .	91.80
2-1/2 . . . . .	8.500 . . . . .	102.00
3 . . . . .	10.200 . . . . .	122.40
3-1/2 . . . . .	11.900 . . . . .	142.80
4 . . . . .	13.600 . . . . .	163.15
5 . . . . .	17.000 . . . . .	204.00
6 . . . . .	20.400 . . . . .	244.80
8 . . . . .	27.200 . . . . .	326.40
10 . . . . .	34.000 . . . . .	408.00
12 . . . . .	40.800 . . . . .	489.60



# COLD ROLLED FLAT

12' Random

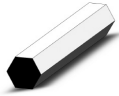
ASTM A108 / 1018 Alloy



Size Inches	Weight Per Ft. Lbs.	12' Wt.
<b><u>1-1/4 x</u></b>		
1-1/2 . . . . .	6.376 . . . . .	76.51
2 . . . . .	8.500 . . . . .	102.00
2-1/2 . . . . .	10.625 . . . . .	127.50
3 . . . . .	12.750 . . . . .	153.00
4 . . . . .	17.000 . . . . .	204.00
5 . . . . .	21.250 . . . . .	255.00
6 . . . . .	25.500 . . . . .	306.00
8 . . . . .	34.000 . . . . .	408.00
<b><u>1-1/2 x</u></b>		
1-3/4 . . . . .	8.93 . . . . .	107.19
2 . . . . .	10.20 . . . . .	122.40
2.25 . . . . .	11.480 . . . . .	137.76
2-1/2 . . . . .	12.75 . . . . .	153.00
3 . . . . .	15.30 . . . . .	183.60
3-1/2 . . . . .	17.87 . . . . .	214.42
4 . . . . .	20.40 . . . . .	244.80
5 . . . . .	25.50 . . . . .	306.00
6 . . . . .	30.60 . . . . .	367.20
8 . . . . .	40.80 . . . . .	489.60
<b><u>1-3/4 x</u></b>		
2 . . . . .	11.900 . . . . .	142.80
2-1/2 . . . . .	14.890 . . . . .	178.67
3 . . . . .	17.850 . . . . .	214.20
4 . . . . .	23.799 . . . . .	285.60
<b><u>2 x</u></b>		
2-1/2 . . . . .	17.00 . . . . .	204.00
3 . . . . .	20.40 . . . . .	244.84
4 . . . . .	27.20 . . . . .	326.40
5 . . . . .	34.00 . . . . .	408.00
6 . . . . .	40.80 . . . . .	489.60
<b><u>2-1/2 x</u></b>		
3 . . . . .	25.50 . . . . .	306.00
4 . . . . .	34.00 . . . . .	408.00
5 . . . . .	42.50 . . . . .	510.00
<b><u>3 x</u></b>		
4 . . . . .	40.80 . . . . .	489.60
6 . . . . .	61.20 . . . . .	734.40

# HEXAGON BARS COLD FINISHED - 1018

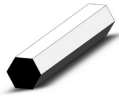
12' Random Lengths  
ASTM A108 / 1018



Size Inches	Weight Per Ft. Lbs.	12' Wt.
7/16 . . . . .	0.564 . . . . .	6.77
1/2. . . . .	0.737 . . . . .	8.84
9/16 . . . . .	0.931 . . . . .	11.17
5/8. . . . .	1.150 . . . . .	13.80
11/16. . . . .	1.393 . . . . .	16.72
3/4. . . . .	1.658 . . . . .	19.90
7/8. . . . .	2.256 . . . . .	27.07
1 . . . . .	2.956 . . . . .	35.47
1-1/8. . . . .	3.727 . . . . .	44.73
1-1/2. . . . .	6.625 . . . . .	79.50
2 . . . . .	11.780 . . . . .	141.36

# HEXAGON BARS COLD FINISHED - 12L14

12' Random Lengths  
ASTM A108 / 12L14



Size Inches	Weight Per Ft. Lbs.	12' Wt.
1 . . . . .	2.956 . . . . .	35.47
1-1/4. . . . .	4.601 . . . . .	55.21

# COLD FINISHED ROUNDS - 1018

ASTM A108 / 1018

Stock Length 12' & 20'



Size Inches	Weight / Ft Lbs	12'	20'
1/8 . . . . .	.042 . . . .	0.50	
3/16 . . . . .	.094 . . . .	1.12	
1/4 . . . . .	.167 . . . .	2.00	
5/16 . . . . .	.260 . . . .	3.12	
3/8 . . . . .	.376 . . . .	4.51 . .	7.51
7/16 . . . . .	.511 . . . .	6.13	
1/2 . . . . .	.668 . . . .	8.02	
9/16 . . . . .	.845 . . . .	10.14	
5/8 . . . . .	1.04 . . . .	12.48 . .	20.81
11/16 . . . . .	1.26 . . . .	15.12	
3/4 . . . . .	1.50 . . . .	18.00 . .	30.00
13/16 . . . . .	1.76 . . . .	21.12	
7/8 . . . . .	2.04 . . . .	24.48	
15/16 . . . . .	2.35 . . . .	28.20 . .	47.00
1 . . . . .	2.67 . . . .	32.04 . .	53.40
1-1/16 . . . . .	3.01 . . . .	36.12	
1-1/8 . . . . .	3.38 . . . .	40.565	
1-3/16 . . . . .	3.77 . . . .	45.24	
1-1/4 . . . . .	4.17 . . . .	50.04 . .	83.40
1-5/16 . . . . .	4.60 . . . .	55.20 . .	91.99
1-3/8 . . . . .	5.05 . . . .	60.60	
1-7/16 . . . . .	5.52 . . . .	66.24 . .	110.40
1-1/2 . . . . .	6.01 . . . .	72.12 . .	120.20
1-9/16 . . . . .	6.52 . . . .	78.24 . .	130.39
1-5/8 . . . . .	7.05 . . . .	84.60	
1-11/16 . . . . .	7.60 . . . .	91.20 . .	151.99
1-3/4 . . . . .	8.18 . . . .	98.16 . .	163.61
1-7/8 . . . . .	9.39 . . . .	112.68 . .	187.80
1-15/16 . . . . .	10.02 . . . .	120.24 . .	200.40
2 . . . . .	10.68 . . . .	128.16 . .	213.60
2-1/16 . . . . .	11.36 . . . .		227.20
2-1/8 . . . . .	12.06 . . . .		241.20
2-3/16 . . . . .	12.78 . . . .	153.36 . .	255.60
2-1/4 . . . . .	13.52 . . . .		270.41
2-3/8 . . . . .	15.06 . . . .		301.20
2-7/16 . . . . .	15.87 . . . .		317.40
2-1/2 . . . . .	16.69 . . . .	200.28 . .	333.79
2-5/8 . . . . .	18.40 . . . .		367.99
2-11/16 . . . . .	19.29 . . . .		385.80
2-3/4 . . . . .	20.20 . . . .	242.40 . .	403.99
2-7/8 . . . . .	22.07 . . . .	264.84 . .	441.41
2-15/16 . . . . .	23.04 . . . .		460.80
3 . . . . .	24.03 . . . .		480.60
3-1/8 . . . . .	26.08 . . . .		521.59
3-1/4 . . . . .	28.21 . . . .		564.19
3-7/16 . . . . .	31.59 . . . .		631.70
3-1/2 . . . . .	32.71 . . . .		654.19
3-3/4 . . . . .	37.55 . . . .		751.00
3-15/16 . . . . .	41.44 . . . .		828.79
4 . . . . .	42.73 . . . .	512.76 . .	854.59
4-1/2 . . . . .	54.08 . . . .		1081.60
5 . . . . .	66.76 . . . .		1335.19
6 . . . . .	96.13 . . . .		1922.59

# COLD FINISHED ROUNDS 1045

Stock Length 12' - 20' - 24' Random



Size Inches	Weight / Ft Lbs	12'	20'	24'
3/8 . . . .	.376 . . . .	4.51 . . . .	7.51	
1/2 . . . .	.668 . . . .	8.02		
5/8 . . . .	1.040 . . . .	12.48		
3/4 . . . .	1.500 . . . .			30.00
7/8 . . . .	2.040 . . . .	24.48		
1 . . . . .	2.670 . . . .	32.04 . . . .	53.40	
1 TGP . . .	2.670 . . . .			64.08
1-1/8 . . .	3.380 . . . .	40.56 . . . .	67.60	
1-1/4 . . .	4.200 . . . .	50.40 . . . .	83.40	
1-5/16 . . .	4.6 . . . . .			92.00
1-3/8 . . .	5.050 . . . .	60.60		
1-7/16 . . .	5.520 . . . .	66.24		
1-1/2 . . .	6.010 . . . .	72.12 . . . .	120.20	
1-5/8 . . .	7.050 . . . .	84.60		
1-3/4 . . .	8.180 . . . .			163.60
2 . . . . .	10.680 . . . .	128.16 . . . .	213.60	
2 TGP . . .	10.680 . . . .	128.16		
2-1/8 . . .	12.060 . . . .			241.20
2-3/16 . . .	12.780 . . . .			255.60
2-1/4 . . .	13.52 . . . .			270.41
2-3/8 . . .	15.060 . . . .			301.20
2-7/16 . . .	15.870 . . . .			317.40
2-1/2 . . .	16.690 . . . .	200.30 . . . .	333.84	
2-3/4 . . .	20.2 . . . . .			403.99
3 . . . . .	24.030 . . . .			480.60
3-1/2 . . .	32.71 . . . .			654.20
4 . . . . .	42.730 . . . .			854.60
5 . . . . .	66.760 . . . .			1335.19

# COLD FINISHED ROUNDS 12L14

Stock Length 12' Random



Size Inches	Weight / Ft Lbs	12'
3/8 . . . . .	0.376 . . . .	4.51
1/2 . . . . .	0.668 . . . .	8.02
3/4 . . . . .	1.500 . . . .	18.00
7/8 . . . . .	2.040 . . . .	24.48
1 . . . . .	2.670 . . . .	32.04
1-1/8 . . . .	3.380 . . . .	40.56
1-1/4 . . . .	4.200 . . . .	50.04
1-3/8 . . . .	5.050 . . . .	60.60
1-1/2 . . . .	6.010 . . . .	72.12
2 . . . . .	10.68 . . . .	128.16
2-1/2 . . . .	16.90 . . . .	200.28

## COLD FINISHED ROUNDS

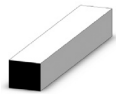
4140 / 4142 – 12' Random Length



Size Inches	Weight / Ft Lbs	12'
1/4 . . . . .	0.167 . . . . .	2.00
3/8 . . . . .	0.376 . . . . .	4.51
7/16 . . . . .	0.511 . . . . .	6.13
1/2 . . . . .	0.668 . . . . .	8.02
9/16 . . . . .	0.845 . . . . .	10.14
5/8 . . . . .	1.040 . . . . .	12.48
3/4 . . . . .	1.500 . . . . .	18.00
7/8 . . . . .	2.040 . . . . .	24.48
1 . . . . .	2.670 . . . . .	32.04
1-1/4 . . . . .	4.170 . . . . .	50.04
1-3/8 . . . . .	5.050 . . . . .	60.60
1-1/2 . . . . .	6.010 . . . . .	72.12
1-5/8 . . . . .	7.050 . . . . .	84.60
1-3/4 . . . . .	8.180 . . . . .	98.17
1-7/8 . . . . .	9.390 . . . . .	112.68
2 . . . . .	10.680 . . . . .	128.16
2-1/4 . . . . .	13.520 . . . . .	162.25
2-3/8 . . . . .	15.060 . . . . .	180.72
2-1/2 . . . . .	16.690 . . . . .	200.28
2-3/4 . . . . .	20.200 . . . . .	242.40
3 . . . . .	24.030 . . . . .	288.36
3-1/4 . . . . .	28.210 . . . . .	338.52
3-1/2 . . . . .	32.710 . . . . .	392.52

## COLD FINISHED SQUARES

C1018 - 12' Random Length



Size Inches	Weight / Ft Lbs	12'
1/8 . . . . .	0.053 . . . . .	0.64
3/16 . . . . .	0.120 . . . . .	1.44
1/4 . . . . .	0.214 . . . . .	2.56
5/16 . . . . .	0.331 . . . . .	3.97
3/8 . . . . .	0.479 . . . . .	5.74
7/16 . . . . .	0.650 . . . . .	7.80
1/2 . . . . .	0.850 . . . . .	10.20
9/16 . . . . .	1.080 . . . . .	12.96
5/8 . . . . .	1.330 . . . . .	15.96
3/4 . . . . .	1.910 . . . . .	22.92
7/8 . . . . .	2.600 . . . . .	31.20
15/16 . . . . .	2.990 . . . . .	35.88
1 . . . . .	3.400 . . . . .	40.80
1-1/8 . . . . .	4.300 . . . . .	51.60
1-1/4 . . . . .	5.310 . . . . .	63.72
1-3/8 . . . . .	6.430 . . . . .	77.16
1-1/2 . . . . .	7.650 . . . . .	91.80
1-3/4 . . . . .	10.410 . . . . .	124.92
2 . . . . .	13.600 . . . . .	163.20
2-1/4 . . . . .	17.220 . . . . .	206.70
2-1/2 . . . . .	21.250 . . . . .	255.00
3 . . . . .	30.600 . . . . .	367.20
4 . . . . .	54.450 . . . . .	653.40

# STRESS RELIEVED ROUNDS 1144

Cold Finish, ASTM A311  
12' Random Length



Size Inches	Weight / Ft. Lbs.	12'
1/4 . . . . .	0.167 . . . . .	2.00
5/16 . . . . .	0.260 . . . . .	3.13
3/8 . . . . .	0.376 . . . . .	4.51
7/16 . . . . .	0.511 . . . . .	6.13
1/2 . . . . .	0.668 . . . . .	8.02
9/16 . . . . .	0.845 . . . . .	10.14
5/8 . . . . .	1.040 . . . . .	12.48
3/4 . . . . .	1.500 . . . . .	18.00
13/16 . . . . .	1.760 . . . . .	21.12
7/8 . . . . .	2.040 . . . . .	24.48
15/16 . . . . .	2.350 . . . . .	28.20
1 . . . . .	2.670 . . . . .	32.04
1-1/16 . . . . .	3.010 . . . . .	36.12
1-1/8 . . . . .	3.380 . . . . .	40.56
1-3/16 . . . . .	3.770 . . . . .	45.24
1-1/4 . . . . .	4.170 . . . . .	50.04
1-5/16 . . . . .	4.600 . . . . .	55.20
1-3/8 . . . . .	5.050 . . . . .	60.60
1-7/16 . . . . .	5.520 . . . . .	66.24
1-1/2 . . . . .	6.010 . . . . .	72.12
1-5/8 . . . . .	7.050 . . . . .	84.60
1-11/16 . . . . .	7.600 . . . . .	91.20
1-3/4 . . . . .	8.180 . . . . .	98.16
1-7/8 . . . . .	9.390 . . . . .	112.68
1-15/16 . . . . .	10.020 . . . . .	120.24
2 . . . . .	10.680 . . . . .	128.16
2-1/8 . . . . .	12.060 . . . . .	144.72
2-3/16 . . . . .	12.780 . . . . .	153.36
2-1/4 . . . . .	13.520 . . . . .	162.24
2-7/16 . . . . .	15.870 . . . . .	190.44
2-1/2 . . . . .	16.690 . . . . .	200.28
2-3/4 . . . . .	20.190 . . . . .	242.40
2-15/16 . . . . .	23.040 . . . . .	276.48
3 . . . . .	24.030 . . . . .	288.36
3-1/4 . . . . .	28.210 . . . . .	338.52
3-7/16 . . . . .	31.590 . . . . .	379.02
3-1/2 . . . . .	32.710 . . . . .	392.52
3-15/16 . . . . .	41.440 . . . . .	497.28
4 . . . . .	42.730 . . . . .	512.76
4-1/4 . . . . .	48.230 . . . . .	578.77

# Tube & Pipe

PAGE

## Pressure Tested Pipe - Black & Galvanized

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### **Continuous Butt weld . . . . . 34**

Conforms to ASTM A53 Type F Grade A

A general purpose pipe, most commonly used in steam, water, gas and air lines.



### **Electric Resistance Welded . . . . . 34**

Conforms to ASTM A53 Type E Grade B

Suitable for welding, coiling, bending, and flaring.

## Structural Pipe

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### **Pipe Size (ERW) Tubing . . . . . 35**

Conforms to ASTM A500 Grade B

A structural purpose pipe sized tube. Compared to pipe, this product offers higher strength, better straightness as well as superior finish and at a lesser cost than tested pipe.

## Round Mechanical Tubing

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### **Cold Drawn Seamless (CDS) . . . 36**

Conforms to ASTM A519

Produced to OD and ID dimensions by a process that pierces a hot rolled bar. Normally furnished in the "as drawn" condition. CDS offers good surface quality and greater mechanical properties than hot finished seamless tubing. Made from 1026 grade steel.

**Sizes ranging from:**

1/2" x .049" wall to 10" x .500" wall



**Drawn Over Mandrel (DOM) . . . . . 36**

Conforms to ASTM A513 Type 5 (mandrel drawn)

DOM has very little wall variation and no spiraling eccentricity. The tube is formed and welded from strip steel which has very little gauge variation. The tube is then cold drawn to size, causing the weld seam to virtually disappear. Tubing 10 ga and lighter is made from 1020 grade steel, heavier than 10 ga is made from 1026.

**Advantages of DOM**

- More uniform wall
- Better surface finish
- Less stock removal
- No spiral on ID thickness
- Denser ID surface
- Closer tolerance
- Comparable or lower cost

**Sizes ranging from:**

1/2" x .049" wall to 10" x .500" wall



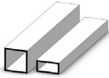
**Electrical Resistance Welded (ERW) . . . . . 40**

Electrical resistance welded tubes are produced from a cold rolled or hot rolled scale-free strip which is formed by rolls at room temperature into a tubular shape. Welding takes place as an electric current heats the two edges of the strip as they are pressed together. Only a narrow band of metal is heated while the rest of the tube remains at room temperature.

**Sizes ranging from:**

1/2" x .049" wall to 10" x .120" wall





## Square and Rectangular Tubing . . . . . 41

Conforms to ASTM A513 Type 1 (AWHR) or Type 2 (AWCR)

**Mechanical** – An electric resistance welded tubing produced from low carbon steel. Offers good surface finish and forming characteristics. All sizes have the OD flash removed, with the ID Flash-in. Generally available in wall thickness lighter than 11ga., in widths less than 3 inches.

Conforms to ASTM A500 Grade B.

**Structural** – An electric resistance welded tube produced from a structural grade of steel. Offers a high strength-to-weight ratio, yet is easily welded, formed, punched, and drilled. All sizes have the OD flash removed, with the ID flash-in. Minimum mechanical properties: Tensile Strength = 58,000 psi, Yield Strength = 46,000 psi, % Elongation in 2" = 23%.

**Sizes ranging from:**

1/2" x 1/2" x .065" wall to 16" x 16" x .500" wall

## **BLACK PIPE P.E.**

Sch 40 - 21' Length,  
ASTM A53

Size	OD	Wall	Wt./Ft.
1/8" . . .	0.405 . . .	0.068 . . .	0.24
1/4" . . .	0.540 . . .	0.088 . . .	0.42
3/8" . . .	0.675 . . .	0.091 . . .	0.56
1/2" . . .	0.840 . . .	0.109 . . .	0.85
3/4" . . .	1.050 . . .	0.113 . . .	1.13
1" . . . .	1.315 . . .	0.133 . . .	1.68
1-1/4" . .	1.660 . . .	0.140 . . .	2.27
1-1/2" . .	1.900 . . .	0.145 . . .	2.72
2" . . . .	2.375 . . .	0.154 . . .	3.65
2-1/2" . .	2.875 . . .	0.203 . . .	5.79
3" . . . .	3.500 . . .	0.216 . . .	7.58
3-1/2" . .	4.000 . . .	0.226 . . .	9.11
4" . . . .	4.500 . . .	0.237 . . .	10.79
5" . . . .	5.563 . . .	0.258 . . .	14.62
6" . . . .	6.625 . . .	0.280 . . .	18.97
8" . . . .	8.625 . . .	0.322 . . .	28.55
10" . . .	10.750 . . .	0.365 . . .	40.48
12" . . .	12.750 . . .	0.375 . . .	49.57

## **GALVANIZED PIPE P.E.**

Sch 40 - 21' Length  
ASTM A53

Size	OD	Wall	Wt./Ft.
1/4" . . .	0.540 . . .	0.088 . . .	0.42
3/8" . . .	0.675 . . .	0.091 . . .	0.56
1/2" . . .	0.840 . . .	0.109 . . .	0.85
3/4" . . .	1.050 . . .	0.113 . . .	1.13
1" . . . .	1.315 . . .	0.133 . . .	1.68
1-1/4" . .	1.660 . . .	0.140 . . .	2.28
1-1/2" . .	1.900 . . .	0.145 . . .	2.73
2" . . . .	2.375 . . .	0.154 . . .	3.68
2-1/2" . .	2.875 . . .	0.203 . . .	5.79
3" . . . .	3.500 . . .	0.216 . . .	7.57
3-1/2" . .	4.000 . . .	0.226 . . .	9.81
4" . . . .	4.500 . . .	0.237 . . .	10.79

## EXTRA HEAVY BLACK PIPE P.E.

Sch 80 - 21' Length

Size	OD	Wall	Wt./Ft.
1/4" . . .	0.540 . . .	0.119 . . .	0.54
3/8" . . .	0.675 . . .	0.126 . . .	0.73
1/2" . . .	0.840 . . .	0.147 . . .	1.09
3/4" . . .	1.050 . . .	0.154 . . .	1.47
1" . . . .	1.315 . . .	0.179 . . .	2.17
1-1/4" . .	1.660 . . .	0.191 . . .	3.00
1-1/2" . .	1.900 . . .	0.200 . . .	3.63
2" . . . .	2.375 . . .	0.218 . . .	5.02
2-1/2" . .	2.875 . . .	0.276 . . .	7.66
3" . . . .	3.500 . . .	0.300 . . .	10.25
3-1/2" . .	4.000 . . .	0.318 . . .	12.51
4" . . . .	4.500 . . .	0.337 . . .	14.98
5" . . . .	5.563 . . .	0.375 . . .	20.78
6" . . . .	6.625 . . .	0.432 . . .	28.57

## PIPE SIZE TUBING

Sch 40 - 21' Lengths

ASTM A500 Grade B

Size	OD	Wall	Wt./Ft.	Wt./21'
1/2" . . .	0.84 . . . .	0.109 . . .	0.85 . . .	17.89
3/4" . . .	1.05 . . . .	0.113 . . .	1.13 . . .	23.73
1" . . . .	1.31 . . . .	0.133 . . .	1.68 . . .	35.28
1-1/4" . .	1.66 . . . .	0.109 . . .	1.81 . . .	37.93
1-1/4" . .	1.66 . . . .	0.135 . . .	2.27 . . .	47.67
1-1/2" . .	1.90 . . . .	0.109 . . .	2.09 . . .	43.89
1-1/2" . .	1.90 . . . .	0.145 . . .	2.72 . . .	57.12
2" . . . .	2.37 . . . .	0.148 . . .	3.66 . . .	76.86
2-1/2" . .	2.88 . . . .	0.203 . . .	5.79 . . .	121.59
3" . . . .	3.50 . . . .	0.216 . . .	7.58 . . .	159.09
3-1/2" . .	4.00 . . . .	0.226 . . .	9.12 . . .	191.52
4" . . . .	4.50 . . . .	0.237 . . .	10.79 . .	226.60
5" . . . .	5.52 . . . .	0.258 . . .	14.63 . .	307.23
6" . . . .	6.625 . . .	0.280 . . .	18.99 . .	398.79
8" . . . .	8.64 . . . .	0.322 . . .	28.54 . .	599.51

Hot Rolled electric welded,  
uncoated not pressure tested.

**CALL FOR LARGER SIZES  
DIFFERENT SCHEDULES**

**Stainless Pipe - See Stainless Section  
Aluminum Pipe - See Aluminum Section**

# ROUND TUBING BUSHING STOCK

Random 20' Lengths

DOM - Drawn Over Mandrel  
CDBW - Cold Drawn Butt Weld  
CDST - Cold Drawn Seamless Tube  
HFS - Hot Finished Seamless



OD	Type	Wall Thickness	Weight/Foot
1/2"	DOM	0.049	0.235
1/2"	DOM	0.095	0.411
3/4"	DOM	0.109	0.745
3/4"	DOM	0.120	0.807
3/4"	DOM	0.188	1.128
11/16"	DOM	0.083	0.536
7/8"	DOM	0.095	0.791
7/8"	DOM	0.120	0.967
7/8"	DOM	0.134	1.060
7/8"	DOM	0.156	1.198
7/8"	DOM	0.187	1.380
1"	DOM	0.109	1.037
1"	DOM	0.120	1.128
1"	DOM	0.156	1.405
1"	CDBW	0.172	1.517
1"	DOM	0.188	1.630
1"	DOM	0.219	1.827
1"	DOM	0.250	2.000
1"	DOM	0.286	2.181
1"	CDST	0.375	2.500
1-1/8"	DOM	0.065	0.736
1-1/8"	DOM	0.156	1.614
1-1/8"	DOM	0.188	1.881
1-1/8"	DOM	0.250	2.330
1-1/8"	DOM	0.281	2.533
1-1/4"	DOM	0.120	1.448
1-1/4"	DOM	0.134	1.597
1-1/4"	DOM	0.148	1.742
1-1/4"	DOM	0.188	2.132
1-1/4"	DOM	0.219	2.411
1-1/4"	DOM	0.250	2.670
1-1/4"	DOM	0.281	2.900
1-1/4"	DOM	0.313	3.132
1-5/16"	DOM	0.120	1.529
1-5/16"	DOM	0.313	3.343
1-3/8"	DOM	0.125	1.667
1-3/8"	DOM	0.188	2.378
1-3/8"	DOM	0.250	3.000
1-3/8"	DOM	0.313	3.551
1-1/2"	DOM	0.095	1.426
1-1/2"	DOM	0.109	1.619
1-1/2"	DOM	0.188	2.640
1-1/2"	DOM	0.219	2.996
1-1/2"	DOM	0.234	3.164
1-1/2"	DOM	0.250	3.338
1-1/2"	DOM	0.281	3.658
1-1/2"	DOM	0.312	3.720
1-1/2"	DOM	0.344	4.247
1-1/2"	DOM	0.375	4.500
1-5/8"	DOM	0.188	2.885
1-5/8"	DOM	0.250	3.670
1-5/8"	DOM	0.312	4.380

# ROUND TUBING BUSHING STOCK

(cont.)

DOM - Drawn Over Mandrel  
CDBW - Cold Drawn Butt Weld  
CDST - Cold Drawn Seamless Tube  
HFS - Hot Finished Seamless



OD	Type	Wall Thickness	Weight/Foot
1-3/4"	DOM	0.095	1.680
1-3/4"	DOM	0.187	3.136
1-3/4"	DOM	0.219	3.581
1-3/4"	DOM	0.250	4.000
1-3/4"	DOM	0.281	4.409
1-3/4"	DOM	0.375	5.500
1-3/4"	DOM	0.438	6.137
1-3/4"	DOM	0.500	6.675
1-7/8"	DOM	0.188	3.387
1-7/8"	DOM	0.250	4.340
1-7/8"	DOM	0.281	4.784
1-7/8"	DOM	0.375	6.008
2"	DOM	0.120	2.400
2"	DOM	0.188	3.638
2"	DOM	0.219	4.166
2"	DOM	0.250	4.670
2"	DOM	0.375	6.500
2"	CDST	0.500	8.010
2-1/8"	DOM	0.156	3.280
2-1/8"	DOM	0.250	5.006
2-1/8"	DOM	0.281	5.534
2-1/8"	DOM	0.313	6.057
2-1/8"	DOM	0.500	8.680
2-1/4"	DOM	0.219	4.750
2-1/4"	DOM	0.250	5.340
2-1/4"	DOM	0.375	7.500
2-1/4"	CDST	0.500	9.350
3-3/8"	DOM	0.156	3.697
2-3/8"	DOM	0.188	4.391
2-3/8"	DOM	0.250	5.674
2-3/8"	DOM	0.375	8.010
2-1/2"	DOM	0.188	4.642
2-1/2"	DOM	0.219	5.335
2-1/2"	DOM	0.250	6.000
2-1/2"	DOM	0.281	6.659
2-1/2"	DOM	0.344	7.921
2-1/2"	DOM	0.375	8.500
2-1/2"	DOM	0.500	10.680
2-1/2"	CDS	0.750	14.020
2-5/8"	DOM	0.250	6.341
3-5/8"	DOM	0.281	7.032
2-5/8"	DOM	0.312	7.730
2-5/8"	DOM	0.375	9.010
2-3/4"	DOM	0.219	5.920
2-3/4"	DOM	0.250	6.675
2-3/4"	DOM	0.375	9.512
2-3/4"	DOM	0.500	12.000
2-7/8"	DOM	0.281	7.785
2-7/8"	DOM	0.375	10.000
2-7/8"	DOM	0.438	11.400
3"	DOM	0.188	5.646
3"	DOM	0.219	6.505

# ROUND TUBING BUSHING STOCK

(cont.)

DOM - Drawn Over Mandrel  
CDBW - Cold Drawn Butt Weld  
CDST - Cold Drawn Seamless Tube  
HFS - Hot Finished Seamless



OD	Type	Wall Thickness	Weight/Foot
3"	DOM	0.250	7.343
3"	DOM	0.313	8.982
3"	DOM	0.344	9.758
3"	DOM	0.375	10.510
3"	DOM	0.438	11.986
3"	DOM	0.500	13.350
3"	DOM	0.625	15.850
3"	CDST	0.750	18.020
3-1/8"	DOM	0.375	11.010
3-1/4"	DOM	0.219	7.089
3-1/4"	DOM	0.250	8.010
3-1/4"	DOM	0.375	11.510
3-1/4"	DOM	0.500	14.690
3-3/8"	DOM	0.500	15.350
3-1/2"	DOM	0.188	6.650
3-1/2"	DOM	0.219	7.674
3-1/2"	DOM	0.250	8.678
3-1/2"	DOM	0.281	9.660
3-1/2"	DOM	0.375	12.520
3-1/2"	DOM	0.500	16.020
3-1/2"	DOM	0.625	19.200
3-1/2"	CDST	0.750	22.000
3-5/8"	DOM	0.375	13.020
3-3/4"	DOM	0.250	9.345
3-3/4"	DOM	0.375	13.520
3-3/4"	DOM	0.500	17.360
4"	DOM	0.188	7.654
4"	DOM	0.219	8.843
4"	DOM	0.250	10.010
4"	DOM	0.313	12.306
4"	DOM	0.375	14.520
4"	DOM	0.437	16.660
4"	DOM	0.500	18.690
4"	CDST	0.750	26.030
4"	CDST	1.000	32.000
4-1/4"	DOM	0.313	13.160
4-1/2"	DOM	0.219	10.010
4-1/2"	DOM	0.250	11.340
4-1/2"	DOM	0.375	16.520
4-1/2"	DOM	0.438	19.000
4-1/2"	DOM	0.500	21.360
4-1/2"	CDST	0.625	25.900
4-1/2"	HFS	0.750	30.040
4-1/2"	CDST	1.000	37.380
5"	DOM	0.250	12.679
5"	DOM	0.375	18.520
5"	DOM	0.500	24.030
5"	CDST	1.125	46.560
5-1/4"	DOM	0.313	16.500
5-1/4"	DOM	0.625	30.870
5-1/2"	DOM	0.250	14.020

# ROUND TUBING BUSHING STOCK

(cont.)

DOM - Drawn Over Mandrel  
CDBW - Cold Drawn Butt Weld  
CDST - Cold Drawn Seamless Tube  
HFS - Hot Finished Seamless



OD	Type	Wall Thickness	Weight/Foot
5-1/2"	DOM	0.375	20.530
5-1/2"	DOM	0.500	24.030
5-1/2"	DOM	0.625	32.540
5-1/2"	CDST	0.875	43.220
6"	DOM	0.250	15.350
6"	DOM	0.375	22.530
6"	DOM	0.500	29.370
7"	DOM	0.500	34.710
7"	DOM	0.625	42.550
7.5"	DOM	0.625	45.890
8"	DOM	0.250	20.690
8"	DOM	0.375	30.540
8"	DOM	0.500	40.050
8"	DOM	0.625	49.230
8.5"	DOM	0.250	22.028
8.5"	DOM	0.500	42.720
9"	DOM	0.250	23.360
10"	1026	0.500	50.730

# ROUND TUBING ELECTRIC WELD

Random 20' Lengths  
Conforms to ASTM A513

Type 1: A.W.H.R. "as welded"  
from hot rolled steel  
Type 2: A.W.C.R. "as welded"  
from cold Rolled steel



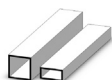
OD	Type	Wall Thickness	Weight/Foot
1/2"	2	0.049	0.236
1/2"	1	0.065	0.300
5/8"	1	0.065	0.389
3/4"	1	0.065	0.476
3/4"	1	0.083	0.591
3/4"	1	0.120	0.807
7/8"	1	0.062	0.562
1"	2	0.049	0.498
1"	2	0.065	0.650
1"	1	0.083	0.815
1"	1	0.120	1.128
1-1/8"	1	0.120	1.288
1-1/4"	1	0.065	0.825
1-1/4"	1	0.083	1.034
1-1/4"	1	0.095	1.170
1-1/4"	1	0.120	1.448
1-1/2"	1	0.065	0.996
1-1/2"	1	0.083	1.253
1-1/2"	1	0.095	1.426
1-1/2"	1	0.120	1.769
1-5/8"	1	0.095	1.550
1-3/4"	1	0.095	1.680
1-3/4"	1	0.125	2.089
2"	1	0.083	1.700
2"	1	0.109	2.201
2"	1	0.120	2.400
2"	1	0.134	2.670
2-3/8"	1	0.120	2.880
2-3/8"	<b>A500 GRB</b>	0.134	3.207
2-1/2"	1	0.083	2.143
2-1/2"	1	0.120	3.050
2-7/8"	1	0.120	3.531
3"	1	0.065	2.037
3"	1	0.109	3.365
3"	1	0.120	3.694
3"	1	0.134	4.102
3"	1	0.188	5.646
3"	<b>A500 GRB</b>	0.250	7.343
4"	1	0.120	4.972
5"	1	0.083	3.946
5"	1	0.120	6.250
5"	1	0.250	12.680
5"	<b>A500 GRB</b>	0.375	18.520
6"	1	0.083	4.746
6"	1	0.120	7.530
8"	1	0.083	6.348
8"	1	0.120	10.510
8"	1	0.188	15.690
10"	1	0.120	13.180



# SQUARE TUBING

A513 or A500 Grade B

Stock Lengths 20' - 24' - 40'



Outside Dimension	Wall Thickness	Wt. Per Foot
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## A-513

1/2 x 1/2 . . . . .	16. . . . .	0.385
3/4 x 3/4 . . . . .	18. . . . .	0.467
3/4 x 3/4 . . . . .	16. . . . .	0.606
3/4 x 3/4 . . . . .	14. . . . .	0.753
3/4 x 3/4 . . . . .	11. . . . .	1.028
1 x 1 . . . . .	18. . . . .	0.634
1 x 1 . . . . .	16. . . . .	0.827
1 x 1 . . . . .	14. . . . .	1.035
1 x 1 . . . . .	13. . . . .	1.169
1 x 1 . . . . .	12. . . . .	1.321
1 x 1 . . . . .	11. . . . .	1.436
1-1/4 x 1-1/4 . . . . .	16. . . . .	1.048
1-1/4 x 1-1/4 . . . . .	14. . . . .	1.317
1-1/4 x 1-1/4 . . . . .	12. . . . .	1.691
1-1/4 x 1-1/4 . . . . .	11. . . . .	1.844
1-1/4 x 1-1/4 . . . . .	10. . . . .	2.030
1-1/4 x 1-1/4 . . . . .	3/16. . . . .	2.400
1-1/2 x 1-1/2 . . . . .	16. . . . .	1.269
1-1/2 x 1-1/2 . . . . .	14. . . . .	1.600
1-1/2 x 1-1/2 . . . . .	12. . . . .	2.062
1-1/2 x 1-1/2 . . . . .	11. . . . .	2.252
1-1/2 x 1-1/2 . . . . .	3/16. . . . .	3.039
1-3/4 x 1-3/4 . . . . .	14. . . . .	1.882
1-3/4 x 1-3/4 . . . . .	11. . . . .	2.660
2 x 2 . . . . .	16. . . . .	1.711
2 x 2 . . . . .	14. . . . .	2.166
2 x 2 . . . . .	13. . . . .	2.461
2 x 2 . . . . .	12. . . . .	2.800
2 x 2 . . . . .	11. . . . .	3.070

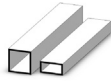
## A-500

1-1/4 x 1-1/4 . . . . .	11. . . . .	1.844
1-1/4 x 1-1/4 . . . . .	10. . . . .	2.030
1-1/4 x 1-1/4 . . . . .	3/16. . . . .	2.400
1-1/2 x 1-1/2 . . . . .	11. . . . .	2.252
1-1/2 x 1-1/2 . . . . .	3/16. . . . .	3.039
1-1/2 x 1-1/2 . . . . .	1/4. . . . .	4.070
2 x 2 . . . . .	11. . . . .	3.070
2 x 2 . . . . .	3/16. . . . .	4.320
2 x 2 . . . . .	1/4. . . . .	5.400
2-1/2 x 2-1/2 . . . . .	14. . . . .	2.670
2-1/2 x 2-1/2 . . . . .	11. . . . .	3.900
2-1/2 x 2-1/2 . . . . .	3/16. . . . .	5.600
2-1/2 x 2-1/2 . . . . .	1/4. . . . .	7.100
3 x 3 . . . . .	14. . . . .	3.300
3 x 3 . . . . .	11. . . . .	4.750
3 x 3 . . . . .	3/16. . . . .	6.880
3 x 3 . . . . .	1/4. . . . .	8.800
3 x 3 . . . . .	5/16. . . . .	10.580
3 x 3 . . . . .	3/8. . . . .	12.150
3-1/2 x 3-1/2 . . . . .	11. . . . .	5.660
3-1/2 x 3-1/2 . . . . .	3/16. . . . .	8.160
3-1/2 x 3-1/2 . . . . .	1/4. . . . .	10.500
3-1/2 x 3-1/2 . . . . .	5/16. . . . .	12.700

# SQUARE TUBING (cont.)

A513 or A500 Grade B

Stock Lengths 20' - 24' - 40'



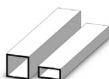
Outside Dimension	Wall Thickness	Wt. Per Foot
4 x 4	14.	4.360
4 x 4	11.	6.450
4 x 4	3/16.	9.440
4 x 4	1/4.	12.200
4 x 4	5/16.	14.840
4 x 4	3/8.	17.250
4 x 4	1/2.	21.610
4-1/2 x 4-1/2	3/16.	10.700
4-1/2 x 4-1/2	1/4.	13.900
5 x 5	11.	8.160
5 x 5	3/16.	11.990
5 x 5	1/4.	15.600
5 x 5	5/16.	19.090
5 x 5	3/8.	22.350
5 x 5	1/2.	28.410
6 x 6	11.	9.860
6 x 6	3/16.	14.550
6 x 6	1/4.	19.000
6 x 6	5/16.	23.350
6 x 6	3/8.	27.450
6 x 6	1/2.	35.210
7 x 7	3/16.	17.080
7 x 7	1/4.	22.400
7 x 7	3/8.	32.550
7 x 7	1/2.	42.050
8 x 8	1/4.	25.800
8 x 8	3/8.	37.650
8 x 8	1/2.	48.810
8 x 8	5/8.	59.320
10 x 10	1/4.	32.590
10 x 10	3/8.	47.850
10 x 10	1/2.	62.400
10 x 10	5/8.	76.320
12 x 12	1/4.	39.430
12 x 12	3/8.	58.100
12 x 12	1/2.	76.070
14 x 14	3/8.	68.310
14 x 14	1/2.	89.680
16 x 16	3/8.	78.520
16 x 16	1/2.	103.300

Call for Stock Lengths. Larger Sizes Available

# RECTANGULAR TUBING

A513 or A500 Grade B

Stock Lengths 20' - 24' - 40'



Outside Dimension	Wall Thickness	Wt. Per Foot
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## A-513

1 x 1/2	16	.606
1-1/2 x 3/4	16	.937
1-1/2 x 3/4	14	1.176
1-1/2 x 1	14	1.320
1-1/2 x 1	11	1.840
2 x 1	16	1.270
2 x 1	14	1.600
2 x 1	11	2.250
2 x 1-1/4	14	1.740
2 x 1-1/4	11	2.460
2 x 1-1/2	14	1.880
2 x 1-1/2	11	2.660
2-1/2 x 1	14	1.880
2-1/2 x 1-1/2	14	2.160
3 x 1	16	1.710
3 x 1	14	2.160
3 x 1-1/2	14	2.390
3 x 1-1/2	11	3.480

## A-500

2 x 1	3/16	3.039
2 x 1-1/2	14	1.880
2 x 1-1/2	11	2.660
2-1/2 x 1	14	1.880
2-1/2 x 1-1/2	1/4	5.400
2-1/2 x 1-1/2	3/16	4.320
2-1/2 x 1-1/2	11	3.070
2-1/2 x 1-1/2	14	2.160
2-1/2 x 1-1/2	11	3.070
2-1/2 x 1-1/2	3/16	4.320
2-1/2 x 1-1/2	1/4	5.400
3 x 1	16	1.710
3 x 1	14	2.100
3 x 1	11	3.070
3 x 1-1/2	14	2.390
3 x 1-1/2	11	3.480
3 x 1-1/2	3/16	4.960
3 x 1-1/2	1/4	6.260
3 x 2	14	2.670
3 x 2	11	3.900
3 x 2	3/16	5.600
3 x 2	1/4	7.100
3 x 2	5/16	8.430
3-1/2 x 2-1/2	3/16	6.870
3-1/2 x 2-1/2	1/4	8.810
4 x 1-1/2	11	4.292
4 x 2	14	3.300
4 x 2	11	4.750
4 x 2	3/16	6.880
4 x 2	1/4	8.800
4 x 2	5/16	10.580
4 x 3	11	5.600
4 x 3	3/16	8.160
4 x 3	1/4	10.500
4 x 3	5/16	12.670

# RECTANGULAR TUBING (cont.)

A513 or A500 Grade B

Stock Lengths 20' - 24' - 40'

Outside Dimension	Wall Thickness	Wt. Per Foot
4 x 3	3/8	14.720
5 x 2	11	5.660
5 x 2	3/16	8.160
5 x 2	1/4	10.500
5 x 2	3/8	14.710
5 x 2-1/2	3/16	8.880
5 x 3	11	6.460
5 x 3	3/16	9.440
5 x 3	1/4	12.200
5 x 3	3/8	17.250
5 x 3	1/2	21.630
5 x 4	3/16	10.700
5 x 4	1/4	13.920
6 x 2	11	6.450
6 x 2	3/16	9.440
6 x 2	1/4	12.200
6 x 2	5/16	14.840
6 x 2	3/8	17.270
6 x 3	11	7.330
6 x 3	3/16	10.710
6 x 3	1/4	13.900
6 x 3	5/16	16.960
6 x 3	3/8	19.800
6 x 3	1/2	25.030
6 x 4	11	8.160
6 x 4	3/16	11.990
6 x 4	1/4	15.600
6 x 4	5/16	19.080
6 x 4	3/8	22.350
6 x 4	1/2	28.410
7 x 3	3/16	11.990
7 x 3	1/4	15.600
7 x 3	3/8	22.370
7 x 4	3/16	13.250
7 x 4	1/4	17.320
7 x 4	3/8	24.930
7 x 5	3/16	14.550
7 x 5	1/4	19.000
7 x 5	3/8	27.450
7 x 5	1/2	35.210
8 x 2	3/16	11.990
8 x 2	1/4	15.600
8 x 2	3/8	22.350
8 x 3	1/8	9.011
8 x 3	3/16	13.270
8 x 3	1/4	17.300
8 x 3	3/8	24.900
8 x 3	1/2	31.840
8 x 4	3/16	14.550
8 x 4	1/4	19.000
8 x 4	3/8	27.450
8 x 4	1/2	35.210
8 x 6	3/16	17.080
8 x 6	1/4	22.400
8 x 6	3/8	32.550
8 x 6	1/2	42.010

# RECTANGULAR TUBING (cont.)

A513 or A500 Grade B

Stock Lengths - 20' - 24' - 40'

Outside Dimension	Wall Thickness	Wt. Per Foot
10 x 2	3/16	14.550
10 x 2	1/4	19.000
10 x 3	1/4	20.720
10 x 4	3/16	17.109
10 x 4	1/4	22.400
10 x 4	3/8	32.550
10 x 4	1/2	42.050
10 x 6	3/16	19.630
10 x 6	1/4	25.800
10 x 6	3/8	37.650
10 x 6	1/2	48.850
10 x 8	1/4	29.930
10 x 8	3/8	42.790
10 x 8	1/2	55.660
12 x 2	3/16	17.110
12 x 2	1/4	22.400
12 x 4	1/4	25.800
12 x 4	3/8	37.650
12 x 4	1/2	48.850
12 x 6	1/4	29.230
12 x 6	3/8	42.750
12 x 8	3/16	24.730
12 x 8	1/4	32.630
12 x 8	3/8	47.850
12 x 8	1/2	62.400
12 x 10	1/4	36.024
12 x 10	3/8	53.000
14 x 6	1/4	43.120

Call for Stock Lengths. Larger Sizes Available



# Sheet

PAGE

## **Coil – Hot Roll . . . . . 50**

### **A1011/A1018 CS Type B - Commercial Steel (CS)**

- This specification covers hot-rolled carbon steel sheets of commercial quality, in coils and cut lengths, having a maximum carbon of 0.15%. This material is intended for parts where bending, moderate forming or drawing, and welding may be involved. This specification is not intended for structural use.
- Available conditions: Hot Roll or Hot Roll Pickled & Oil

## **Coil – Structural . . . . . 52**

### **ASTM A36**

- ASTM A36 is a structural quality carbon steel for use in welded, bolted or riveted construction of bridges and buildings, and for general structural purposes. Minimum yield strength of 36 KSI (250MPa) is required to meet the requirements of A36. ASTM A36 plate is used in a variety of applications which include, but not limited to; railroad cars, trucks, agriculture equipment, trailers, construction equipment, buildings and bridges.
- Available conditions: Hot Roll or Hot Roll Pickled & Oil
- Mechanical Properties

YP (MPa), min.	Tensile (MPa)	Elongation in 2" (50mm), min. %	Carbon max % (thickness dependent)
36 (250)	58-80 (400-550)	23	.25-.29

## **Coil – High Strength Low Alloy . . . . . 53**

### **A1011 HSLAS-F gr50/gr60/gr80**

- This specification covers sheet hot-rolled, carbon, structural, high-strength low-alloy with improved formability, and strip, in coils and cut lengths. The addition of alloying elements raises the yield point offering higher strength-to-weight ratios. The product is intended for applications where higher strength, savings in weight, improved formability and weldability are important.
- Available conditions: Hot Roll or Hot Roll Pickled & Oil

- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
50 (345)	60 (410)	22
60 (415)	70 (480)	20
80 (550)	90 (620)	16

### A1018 HSLAS-F gr50

- This specification covers heavy gauge hot-rolled, carbon, structural, high-strength low-alloy with improved formability, and strip, in coils and cut lengths. The product is intended for applications where higher strength, savings in weight, improved formability and weldability are important.
- Available conditions: Hot Roll or Hot Roll Pickled & Oil
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
50 (345)	60 (410)	22

### ASTM A572 gr50/60

- A572 is a high strength low alloy steel that offers a higher strength than plain carbon steel plates – plus ductility, weldability, formability, toughness and fatigue strength. A572 meets a minimum strength requirement (dependent on grade) and provides good workability and weldability at a moderate price. A572 plate is used in a variety of applications which include, but not limited to; railroad cars, trucks, trailers, agriculture equipment, construction equipment, buildings and bridges. Charpy V-notch Impact Toughness and Maximum Tensile Strength are supplementary requirements that may be requested.
- Available conditions: Hot Roll or Hot Roll Pickled & Oil
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
50 (345)	65 (450)	21
60 (415)	75 (520)	18

### A656 gr80

- This specification covers high-strength low-alloy, hot rolled structural steel plate for use in truck frames, brackets, crane booms, rail cars, and similar applications. Steels that conform to this specification offer improved formability. These steels are normally furnished in the as-rolled condition.



- Available conditions: Hot Roll or Hot Roll Pickled & Oil
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
80 (550)	90 (620)	15

## **Coil – Abrasion Resistant . . . . 56**

### **AR200**

- AR200 is an as-rolled, carbon-steel plate with a nominal hardness of between 180-235 HBW, intended for moderate wear applications. AR200 is available as cut-to-length plate and discrete plate. AR200 is not intended for structural applications. Typical applications for AR200 steel plate include cement mixer drums and fins, bulk material handling chute liners, skirt board liners, and screw conveyers.

## **Coil – Floor Plate . . . . . 57**

### **Floor Plate (A786 – CS and A36)**

- This specification covers carbon, low-alloy, high strength low-alloy, and alloy steel hot-rolled floor plates for flooring, stairways, transportation equipment, and general structural purposes. While it is generally provided in the as-rolled condition, floor plate also may be provided in the heat-treated condition, depending on the material specification. Rolled floor plates have raised figures at regular intervals on one surface of the plate.

## **Coil – Cold Rolled . . . . . 60**

### **A1008 CS Type B**

- This specification covers cold-rolled, carbon steel sheet, in coils and cut lengths. This material is intended for parts where bending, moderate forming or drawing, and welding may be involved. This specification is not intended for structural use.

## **Coil – Coated . . . . . 61**

### **Galvanized – A653 – CS Type B**

- This specification covers steel sheet, zinc-coated (galvanized) or zinc-iron alloy-coated (galvannealed) by the hotdip process in coils and cut lengths.

# HOT ROLL SHEET – CS (Coil)

A1011 CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
16GA	4' X 8' . . . . .	2.500 . . . . .	80.00
	4' X 10' . . . . .	2.500 . . . . .	100.00
	4' X 12' . . . . .	2.500 . . . . .	120.00
	5' X 8' . . . . .	2.500 . . . . .	100.00
	5' X 10' . . . . .	2.500 . . . . .	125.00
	5' X 12' . . . . .	2.500 . . . . .	150.00
14GA	4' X 8' . . . . .	3.125 . . . . .	100.00
	4' X 10' . . . . .	3.125 . . . . .	125.00
	4' X 12' . . . . .	3.125 . . . . .	150.00
	5' X 8' . . . . .	3.125 . . . . .	125.00
	5' X 10' . . . . .	3.125 . . . . .	156.25
	5' X 12' . . . . .	3.125 . . . . .	187.50
	6' X 8' . . . . .	3.125 . . . . .	150.00
	6' X 10' . . . . .	3.125 . . . . .	187.50
12GA	4' X 8' . . . . .	4.375 . . . . .	140.00
	4' X 10' . . . . .	4.375 . . . . .	175.00
	4' X 12' . . . . .	4.375 . . . . .	210.00
	5' X 8' . . . . .	4.375 . . . . .	175.00
	5' X 10' . . . . .	4.375 . . . . .	218.75
	5' X 12' . . . . .	4.375 . . . . .	262.50
	6' X 8' . . . . .	4.375 . . . . .	210.00
	6' X 10' . . . . .	4.375 . . . . .	262.50
11GA	4' X 8' . . . . .	5.000 . . . . .	160.00
	4' X 10' . . . . .	5.000 . . . . .	200.00
	4' X 12' . . . . .	5.000 . . . . .	240.00
	5' X 8' . . . . .	5.000 . . . . .	200.00
	5' X 10' . . . . .	5.000 . . . . .	250.00
	5' X 12' . . . . .	5.000 . . . . .	300.00
	6' X 8' . . . . .	5.000 . . . . .	240.00
	6' X 10' . . . . .	5.000 . . . . .	300.00
10GA	4' X 8' . . . . .	5.626 . . . . .	180.03
	4' X 10' . . . . .	5.625 . . . . .	225.00
	4' X 12' . . . . .	5.625 . . . . .	270.00
	5' X 8' . . . . .	5.625 . . . . .	225.00
	5' X 10' . . . . .	5.625 . . . . .	281.25
	5' X 12' . . . . .	5.625 . . . . .	337.50
	6' X 8' . . . . .	5.625 . . . . .	270.00
	6' X 10' . . . . .	5.625 . . . . .	337.50
8GA	4' X 8' . . . . .	6.880 . . . . .	220.16
	4' X 10' . . . . .	6.880 . . . . .	275.20
	5' X 10' . . . . .	6.880 . . . . .	344.00
	5' X 12' . . . . .	6.880 . . . . .	412.80
	6' X 8' . . . . .	6.880 . . . . .	330.24
7GA	4' X 8' . . . . .	7.501 . . . . .	240.03
	4' X 10' . . . . .	7.501 . . . . .	300.04
	4' X 12' . . . . .	7.501 . . . . .	360.05

## **HOT ROLL SHEET – CS (Coil)(cont.)**

A1011 CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>7GA</b>	<b>5' X 8'</b> .....	<b>7.501</b> .....	<b>300.04</b>
	<b>5' X 10'</b> .....	<b>7.501</b> .....	<b>375.05</b>
	<b>5' X 12'</b> .....	<b>7.501</b> .....	<b>450.06</b>
	<b>6' X 8'</b> .....	<b>7.501</b> .....	<b>360.05</b>
	<b>6' X 10'</b> .....	<b>7.501</b> .....	<b>450.06</b>
	<b>6' X 12'</b> .....	<b>7.501</b> .....	<b>540.07</b>

## **HOT ROLL PLATE CS (Coil)**

A1018 CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>1/4</b>	<b>4' X 8'</b> .....	<b>10.200</b> .....	<b>326.40</b>
	<b>4' X 10'</b> .....	<b>10.200</b> .....	<b>408.00</b>
	<b>5' X 8'</b> .....	<b>10.200</b> .....	<b>408.00</b>
	<b>5' X 10'</b> .....	<b>10.200</b> .....	<b>510.00</b>
<b>5/16</b>	<b>5' X 10'</b> .....	<b>12.750</b> .....	<b>637.50</b>
<b>3/8</b>	<b>4' X 10'</b> .....	<b>15.300</b> .....	<b>612.00</b>
	<b>5' X 10'</b> .....	<b>15.300</b> .....	<b>765.00</b>
<b>1/2</b>	<b>5' X 10'</b> .....	<b>20.400</b> .....	<b>1020.00</b>

# HOT ROLL PLATE (Coil)

A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	4' X 8'	7.651	244.83
	4' X 10'	7.651	306.04
	4' X 12'	7.651	367.25
	5' X 8'	7.651	306.04
	5' X 10'	7.651	382.55
	5' X 12'	7.651	459.06
	6' X 8'	7.651	367.25
	6' X 10'	7.651	459.06
	6' X 12'	7.651	550.87
1/4	4' X 4'	10.200	163.20
	4' X 8'	10.200	326.40
	4' X 10'	10.200	408.00
	4' X 12'	10.200	489.60
	5' X 8'	10.200	408.00
	5' X 10'	10.200	510.00
	5' X 12'	10.200	612.00
	6' X 8'	10.200	489.60
	6' X 10'	10.200	612.00
5/16	4' X 12'	10.200	734.40
	6' X 20'	10.200	1224.00
	4' X 8'	12.750	408.00
	4' X 10'	12.750	510.00
	5' X 8'	12.750	510.00
	5' X 10'	12.750	637.50
	5' X 12'	12.750	765.00
	5' X 20'	12.750	1275.00
	6' X 8'	12.750	612.00
3/8	6' X 10'	12.750	765.00
	6' X 12'	12.750	918.00
	6' X 20'	12.750	1530.00
	4' X 8'	15.300	489.60
	4' X 10'	15.300	612.00
	4' X 12'	15.300	734.40
	5' X 8'	15.300	612.00
	5' X 10'	15.300	765.00
	5' X 12'	15.300	918.00
1/2	5' X 20'	15.300	1530.00
	6' X 8'	15.300	734.40
	6' X 10'	15.300	918.00
	6' X 12'	15.300	1101.60
	6' X 20'	15.300	1836.00
	4' X 8'	20.400	652.80
	4' X 10'	20.400	816.00
	4' X 12'	20.400	979.20
	5' X 8'	20.400	816.00
	5' X 10'	20.400	1020.00
	5' X 12'	20.400	1224.00
	5' X 20'	20.400	2040.00
	6' X 8'	20.400	979.20
	6' X 10'	20.400	1224.00
	6' X 12'	20.400	1468.80
	6' X 20'	20.400	2448.00

## HOT ROLL PLATE (Coil) (cont.)

A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
5/8	4' X 4' . . . . .	25.530 . . . . .	408.48
	4' X 8' . . . . .	25.530 . . . . .	816.96
	4' X 10' . . . . .	25.530 . . . . .	1021.20
	4' X 12' . . . . .	25.530 . . . . .	1225.44
	5' X 10' . . . . .	25.530 . . . . .	1276.50

## HOT ROLL SHEET (Coil)

A1011 HSLAS-F GR50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
14GA	4' X 8' . . . . .	3.125 . . . . .	100.00
	4' X 10' . . . . .	3.125 . . . . .	125.00
	4' X 12' . . . . .	3.125 . . . . .	150.00
12GA	4' X 8' . . . . .	4.375 . . . . .	140.00
	4' X 10' . . . . .	4.375 . . . . .	175.00
	4' X 12' . . . . .	4.375 . . . . .	210.00
	5' X 8' . . . . .	4.375 . . . . .	175.00
	5' X 10' . . . . .	4.375 . . . . .	218.75
11GA	5' X 12' . . . . .	4.375 . . . . .	262.50
	4' X 8' . . . . .	5.000 . . . . .	160.00
	4' X 10' . . . . .	5.000 . . . . .	200.00
	5' X 8' . . . . .	5.000 . . . . .	200.00
	5' X 10' . . . . .	5.000 . . . . .	250.00
	6' X 8' . . . . .	5.000 . . . . .	240.00
10GA	6' X 10' . . . . .	5.000 . . . . .	300.00
	6' X 12' . . . . .	5.000 . . . . .	360.00
	4' X 8' . . . . .	5.626 . . . . .	180.03
	4' X 10' . . . . .	5.626 . . . . .	225.04
	5' X 8' . . . . .	5.626 . . . . .	225.04
	5' X 10' . . . . .	5.626 . . . . .	281.30
	5' X 12' . . . . .	5.626 . . . . .	337.56
3/16	6' X 10' . . . . .	5.626 . . . . .	337.56
	6' X 12' . . . . .	5.626 . . . . .	405.07
	4' X 8' . . . . .	7.651 . . . . .	244.83
	4' X 10' . . . . .	7.651 . . . . .	306.04
	4' X 12' . . . . .	7.651 . . . . .	367.25
	5' X 8' . . . . .	7.651 . . . . .	306.04
	5' X 10' . . . . .	7.651 . . . . .	382.55
3/16	5' X 12' . . . . .	7.651 . . . . .	459.06
	6' X 8' . . . . .	7.651 . . . . .	367.25
	6' X 10' . . . . .	7.651 . . . . .	459.06
	6' X 12' . . . . .	7.651 . . . . .	550.87

# HOT ROLL PLATE (Coil)

A1018 HSLAS-F gr50 / A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/4	4' X 8' . . . . .	10.200 . . . . .	326.40
	4' X 10' . . . . .	10.200 . . . . .	408.00
	4' X 12' . . . . .	10.200 . . . . .	489.60
	5' X 8' . . . . .	10.200 . . . . .	408.00
	5' X 10' . . . . .	10.200 . . . . .	510.00
	5' X 12' . . . . .	10.200 . . . . .	612.00
	6' X 10' . . . . .	10.200 . . . . .	612.00
	6' X 12' . . . . .	10.200 . . . . .	734.40
	6' X 20' . . . . .	10.200 . . . . .	1224.00
5/16	4' X 8' . . . . .	12.750 . . . . .	408.00
	4' X 10' . . . . .	12.750 . . . . .	510.00
	5' X 8' . . . . .	12.750 . . . . .	510.00
	5' X 10' . . . . .	12.750 . . . . .	637.50
	5' X 12' . . . . .	12.750 . . . . .	765.00
	6' X 10' . . . . .	12.750 . . . . .	765.00
	6' X 12' . . . . .	12.750 . . . . .	918.00
3/8	4' X 8' . . . . .	15.300 . . . . .	489.60
	4' X 10' . . . . .	15.300 . . . . .	612.00
	4' X 12' . . . . .	15.300 . . . . .	734.40
	5' X 8' . . . . .	15.300 . . . . .	612.00
	5' X 10' . . . . .	15.300 . . . . .	765.00
	5' X 12' . . . . .	15.300 . . . . .	918.00
	6' X 8' . . . . .	15.300 . . . . .	734.40
	6' X 10' . . . . .	15.300 . . . . .	918.00
	6' X 12' . . . . .	15.300 . . . . .	1101.60
1/2	6' X 20' . . . . .	15.300 . . . . .	1836.00
	4' X 8' . . . . .	20.400 . . . . .	652.80
	4' X 10' . . . . .	20.400 . . . . .	816.00
	4' X 12' . . . . .	20.400 . . . . .	979.20
	5' X 8' . . . . .	20.400 . . . . .	816.00
	5' X 10' . . . . .	20.400 . . . . .	1020.00
	5' X 12' . . . . .	20.400 . . . . .	1224.00
	5' X 20' . . . . .	20.400 . . . . .	2040.00
	6' X 10' . . . . .	20.400 . . . . .	1224.00
	6' X 12' . . . . .	20.400 . . . . .	1468.80
	6' X 20' . . . . .	20.400 . . . . .	2448.00

## HOT ROLL SHEET (Coil)

A1011 HSLAS-F gr60

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
11GA	5' X 10'.....	5.000 .....	250.00
10GA	5' X 10'.....	5.626 .....	281.30
6GA	5' X 8'.....	8.120 .....	324.80
	5' X 10'.....	8.120 .....	406.00

## HOT ROLL PLATE (Coil)

A572 gr60

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/4	4' X 8'.....	10.200 .....	326.40
	4' X 10'.....	10.200 .....	408.00
	4' X 20'.....	10.200 .....	816.00
5/16	5' X 10'.....	12.750 .....	637.50
3/8	4' X 10'.....	15.300 .....	612.00
	5' X 10'.....	15.300 .....	765.00

## HOT ROLL SHEET (Coil)

A1011 HSLAS-F gr80

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
12GA	5' X 10'.....	4.375 .....	218.75
	5' X 12'.....	4.375 .....	262.50
10GA	5' X 8'.....	5.626 .....	225.04
	5' X 10'.....	5.626 .....	281.30

## HOT ROLL PLATE (Coil)

A656 gr80

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	4' X 10'.....	7.651 .....	306.04
	5' X 8'.....	7.651 .....	306.04
	5' X 10'.....	7.651 .....	382.55
	5' X 12'.....	7.651 .....	459.06
	6' X 10'.....	7.651 .....	459.06
	6' X 12'.....	7.651 .....	550.87
	6' X 20'.....	7.651 .....	918.12
1/4	5' X 8'.....	10.200 .....	408.00
	5' X 10'.....	10.200 .....	510.00
	5' X 12'.....	10.200 .....	612.00
	6' X 8'.....	10.200 .....	489.60
	6' X 10'.....	10.200 .....	612.00
	6' X 12'.....	10.200 .....	734.40
	6' X 20'.....	10.200 .....	1224.00
5/16	5' X 10'.....	12.751 .....	637.50
	6' X 8'.....	12.751 .....	612.00

# HOT ROLL PLATE (Coil) (cont.)

A656 gr80

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>5/16</b>	<b>6' X 10'</b> .....	<b>12.751</b> .....	<b>765.00</b>
	<b>6' X 12'</b> .....	<b>12.751</b> .....	<b>918.00</b>
<b>3/8</b>	<b>5' X 10'</b> .....	<b>15.300</b> .....	<b>765.00</b>
	<b>6' X 10'</b> .....	<b>15.300</b> .....	<b>918.00</b>
	<b>6' X 12'</b> .....	<b>15.300</b> .....	<b>1101.60</b>
	<b>6' X 20'</b> .....	<b>15.300</b> .....	<b>1836.00</b>

# HOT ROLL PLATE (Coil)

AR200

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>10GA</b>	<b>4' X 8'</b> .....	<b>5.625</b> .....	<b>180.00</b>
	<b>4' X 10'</b> .....	<b>5.625</b> .....	<b>225.00</b>
	<b>5' X 10'</b> .....	<b>5.625</b> .....	<b>281.25</b>
	<b>61" X 12'</b> .....	<b>5.625</b> .....	<b>343.13</b>
<b>3/16</b>	<b>5' X 10'</b> .....	<b>7.651</b> .....	<b>382.55</b>
	<b>5' X 12'</b> .....	<b>7.651</b> .....	<b>459.06</b>
	<b>6' X 12'</b> .....	<b>7.651</b> .....	<b>550.87</b>
<b>1/4</b>	<b>5' X 10'</b> .....	<b>10.200</b> .....	<b>510.00</b>
	<b>5' X 12'</b> .....	<b>10.200</b> .....	<b>612.00</b>
	<b>6' X 12'</b> .....	<b>10.200</b> .....	<b>734.40</b>
<b>5/16</b>	<b>5' X 10'</b> .....	<b>12.750</b> .....	<b>637.50</b>
	<b>5' X 12'</b> .....	<b>12.750</b> .....	<b>765.00</b>
<b>3/8</b>	<b>5' X 10'</b> .....	<b>15.300</b> .....	<b>765.00</b>



# HOT ROLL FLOOR PLATE (Coil)

A786 – CS and A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
14GA	4' X 8' . . . . .	3.750 . . . . .	120.00
	4' X 10' . . . . .	3.750 . . . . .	150.00
13GA	4' X 8' . . . . .	4.050 . . . . .	129.60
	4' X 10' . . . . .	4.050 . . . . .	162.00
	4' X 12' . . . . .	4.050 . . . . .	194.40
12GA	4' X 8' . . . . .	5.250 . . . . .	168.00
	4' X 10' . . . . .	5.250 . . . . .	210.00
	5' X 8' . . . . .	5.250 . . . . .	210.00
	5' X 10' . . . . .	5.250 . . . . .	262.50
1/8	5' X 12' . . . . .	5.250 . . . . .	315.00
	4 X 8 . . . . .	6.150 . . . . .	196.80
	4' X 10' . . . . .	6.150 . . . . .	246.00
	4 X 12 . . . . .	6.150 . . . . .	295.20
	5' X 8' . . . . .	6.150 . . . . .	246.00
	5 X 10 . . . . .	6.150 . . . . .	307.50
	5 X 12' . . . . .	6.150 . . . . .	369.00
3/16	6' X 8' . . . . .	6.150 . . . . .	295.20
	6' X 10' . . . . .	6.150 . . . . .	369.00
	6' X 12' . . . . .	6.150 . . . . .	442.80
	4' X 8' . . . . .	8.700 . . . . .	278.40
	4' X 10' . . . . .	8.700 . . . . .	348.00
	4' X 12' . . . . .	8.700 . . . . .	417.60
	5' X 8' . . . . .	8.700 . . . . .	348.00
1/4	5' X 10' . . . . .	8.700 . . . . .	435.00
	5' X 12' . . . . .	8.700 . . . . .	522.00
	6' X 8' . . . . .	8.700 . . . . .	417.60
	6' X 10' . . . . .	8.700 . . . . .	522.00
	6' X 12' . . . . .	8.700 . . . . .	626.40
	4' X 8' . . . . .	11.251 . . . . .	360.03
	4' X 10' . . . . .	11.251 . . . . .	450.04
3/8	5' X 8' . . . . .	11.251 . . . . .	450.04
	5' X 10' . . . . .	11.251 . . . . .	562.55
	5' X 12' . . . . .	11.251 . . . . .	675.06
	6' X 8' . . . . .	11.251 . . . . .	540.05
	6' X 10' . . . . .	11.251 . . . . .	675.06
1/2	6' X 12' . . . . .	11.251 . . . . .	810.07
	4' X 8' . . . . .	16.370 . . . . .	523.84
	4' X 10' . . . . .	16.370 . . . . .	654.80
1/2	5' X 10' . . . . .	16.370 . . . . .	818.50
	4' X 8' . . . . .	21.470 . . . . .	687.04
	4' X 10' . . . . .	21.470 . . . . .	858.80

# HRPO SHEET (Coil)

A1011 CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
16GA	4' X 10' . . . . .	2.500 . . . . .	100.00
	5' X 10' . . . . .	2.500 . . . . .	125.00
14GA	4' X 8' . . . . .	3.125 . . . . .	100.00
	4' X 10' . . . . .	3.125 . . . . .	125.00
	4' X 12' . . . . .	3.125 . . . . .	150.00
	5' X 8' . . . . .	3.125 . . . . .	125.00
	5' X 10' . . . . .	3.125 . . . . .	156.25
	5' X 12' . . . . .	3.125 . . . . .	187.50
13GA	4' X 8' . . . . .	3.659 . . . . .	117.09
	4' X 10' . . . . .	3.659 . . . . .	146.36
	5' X 10' . . . . .	3.659 . . . . .	182.95
12GA	4' X 8' . . . . .	4.375 . . . . .	140.00
	4' X 10' . . . . .	4.375 . . . . .	175.00
	4' X 12' . . . . .	4.375 . . . . .	210.00
	5' X 8' . . . . .	4.375 . . . . .	175.00
	5' X 10' . . . . .	4.375 . . . . .	218.75
	5' X 12' . . . . .	4.375 . . . . .	262.50
	6' X 10' . . . . .	4.375 . . . . .	262.50
11GA	6' X 12' . . . . .	4.375 . . . . .	315.00
	4' X 8' . . . . .	5.000 . . . . .	160.00
	4' X 10' . . . . .	5.000 . . . . .	200.00
	4' X 12' . . . . .	5.000 . . . . .	240.00
	5' X 8' . . . . .	5.000 . . . . .	200.00
	5' X 10' . . . . .	5.000 . . . . .	250.00
10GA	5' X 12' . . . . .	5.000 . . . . .	300.00
	4' X 8' . . . . .	5.625 . . . . .	180.00
	4' X 10' . . . . .	5.625 . . . . .	225.00
	5' X 8' . . . . .	5.625 . . . . .	225.00
	5' X 10' . . . . .	5.625 . . . . .	281.25
	5' X 12' . . . . .	5.625 . . . . .	337.50
	6' X 10' . . . . .	5.625 . . . . .	337.50
8GA	6' X 12' . . . . .	5.625 . . . . .	405.00
	4' X 8' . . . . .	6.876 . . . . .	220.03
	4' X 10' . . . . .	6.876 . . . . .	275.04
7GA	5' X 10' . . . . .	6.876 . . . . .	343.80
	4' X 8' . . . . .	7.501 . . . . .	240.03
	4' X 10' . . . . .	7.501 . . . . .	300.04
3/16"	5' X 8' . . . . .	7.501 . . . . .	300.04
	5' X 10' . . . . .	7.501 . . . . .	375.05
	5' X 12' . . . . .	7.501 . . . . .	450.06
	6' X 10' . . . . .	7.501 . . . . .	450.06
	6' X 12' . . . . .	7.501 . . . . .	540.07
	5' X 10' . . . . .	7.651 . . . . .	382.55
	5' X 12' . . . . .	7.651 . . . . .	459.06

## HRPO PLATE (Coil)

A1018 - CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/4	4' X 8' . . . . .	10.200 . . . . .	326.40
	4' X 10' . . . . .	10.200 . . . . .	408.00
	4' X 12' . . . . .	10.200 . . . . .	489.60
	5' X 8' . . . . .	10.200 . . . . .	408.00
	5' X 10' . . . . .	10.200 . . . . .	510.00
5/16	4' X 8' . . . . .	12.750 . . . . .	408.00
	4' X 10' . . . . .	12.750 . . . . .	510.00
3/8	4' X 8' . . . . .	15.300 . . . . .	489.60
	5' X 10' . . . . .	15.300 . . . . .	765.00
	5' X 12' . . . . .	15.300 . . . . .	918.00

## HRPO PLATE (Coil)

A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	4' X 8' . . . . .	7.651 . . . . .	244.83
	4' X 10' . . . . .	7.651 . . . . .	306.04
	5' X 8' . . . . .	7.651 . . . . .	306.04
	5' X 10' . . . . .	7.651 . . . . .	382.55
	6' X 10' . . . . .	7.651 . . . . .	459.06
	6' X 12' . . . . .	7.651 . . . . .	550.87
1/4	4' X 8' . . . . .	10.200 . . . . .	326.40
	4' X 10' . . . . .	10.200 . . . . .	408.00
	5' X 10' . . . . .	10.200 . . . . .	510.00
	5' X 12' . . . . .	10.200 . . . . .	612.00
	6' X 12' . . . . .	10.200 . . . . .	734.40
5/16	5' X 8' . . . . .	12.750 . . . . .	510.00
	5' X 10' . . . . .	12.750 . . . . .	637.50
3/8	4' X 8' . . . . .	15.313 . . . . .	489.60
	4' X 10' . . . . .	15.313 . . . . .	612.00
	5' X 10' . . . . .	15.313 . . . . .	765.00
	5' X 12' . . . . .	15.313 . . . . .	918.00
1/2	5' X 10' . . . . .	20.400 . . . . .	1020.00
	5' X 12' . . . . .	20.400 . . . . .	1224.00
	6' X 10' . . . . .	20.400 . . . . .	1224.00

## HRPO SHEET (Coil)

A1011 HSLAS-F gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
16GA	4' X 10' . . . . .	2.500 . . . . .	100.00
12GA	5' X 10' . . . . .	4.391 . . . . .	219.55
11GA	5' X 10' . . . . .	5.000 . . . . .	250.00
10GA	4' X 8' . . . . .	5.625 . . . . .	180.00
	5' X 8' . . . . .	5.625 . . . . .	225.00
	5' X 10' . . . . .	5.625 . . . . .	281.25
7GA	4' X 8' . . . . .	7.501 . . . . .	240.03
	4' X 10' . . . . .	7.501 . . . . .	300.04
3/16	5' X 10' . . . . .	7.651 . . . . .	382.55
	5' X 12' . . . . .	7.651 . . . . .	459.06

## HRPO PLATE (Coil)

A1018 HSLAS-F/A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/4	5' X 10'	10.200	510.00
	5' X 12'	10.200	612.00
5/16	5' X 10'	12.750	637.50
	5' X 12'	12.750	765.00
3/8	5' X 10'	15.300	765.00
	5' X 12'	15.300	918.00
1/2	5' X 10'	20.400	1020.00
	5' X 12'	20.400	1224.00

## COLD ROLL SHEETS (Coil)

A1008 CS Type B

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
24GA	4' X 8'	1.001	32.03
22GA	4' X 8'	1.250	40.00
	4' X 10'	1.250	50.00
20GA	4' X 8'	1.500	48.00
	4' X 10'	1.500	60.00
	5' X 10'	1.500	75.00
18GA	4' X 8'	2.000	64.00
	4' X 10'	2.000	80.00
	5' X 10'	2.000	100.00
16GA	4' X 8'	2.500	80.00
	4' X 10'	2.500	100.00
	4' X 12'	2.500	120.00
	5' X 8'	2.500	100.00
	5' X 10'	2.500	125.00
	5' X 12'	2.500	150.00
14GA	4' X 8'	3.125	100.00
	4' X 10'	3.125	125.00
	5' X 8'	3.125	125.00
	5' X 10'	3.125	156.25
	6' X 8'	3.125	150.00
	6' X 10'	3.125	187.50
	6' X 12'	3.125	225.00
12GA	4' X 8'	4.375	140.00
	4' X 10'	4.375	175.00
	5' X 8'	4.375	175.00
11GA	5' X 10'	4.375	218.75
	4' X 10'	5.000	200.00
10GA	5' X 10'	5.000	250.00
	4' X 8'	5.626	180.03
	4' X 10'	5.626	225.04

# GALVANIZED SHEETS (Coil)

A653 (G90)

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
26GA(G60)	4' X 8' . . . . .	0.906 . . . . .	28.99
	4' X 10' . . . . .	0.906 . . . . .	36.24
24GA	4' X 8' . . . . .	1.156 . . . . .	37.00
	4' X 10' . . . . .	1.156 . . . . .	46.24
22GA	4' X 8' . . . . .	1.407 . . . . .	45.02
	4' X 10' . . . . .	1.407 . . . . .	56.28
20GA	4' X 8' . . . . .	1.656 . . . . .	52.99
	4' X 10' . . . . .	1.656 . . . . .	66.24
	5' X 10' . . . . .	1.656 . . . . .	82.80
18GA	4' X 8' . . . . .	2.156 . . . . .	68.99
	4' X 10' . . . . .	2.156 . . . . .	86.24
	5' X 10' . . . . .	2.156 . . . . .	107.80
16GA	4' X 8' . . . . .	2.656 . . . . .	84.99
	4' X 10' . . . . .	2.656 . . . . .	106.24
	4' X 12' . . . . .	2.656 . . . . .	127.49
	5' X 8' . . . . .	2.656 . . . . .	106.24
	5' X 10' . . . . .	2.656 . . . . .	132.80
14GA	4' X 8' . . . . .	3.282 . . . . .	105.02
	4' X 10' . . . . .	3.282 . . . . .	131.28
	5' X 8' . . . . .	3.282 . . . . .	131.28
	5' X 10' . . . . .	3.282 . . . . .	164.10
12GA	4' X 8' . . . . .	4.533 . . . . .	145.06
	4' X 10' . . . . .	4.533 . . . . .	181.32
	4' X 12' . . . . .	4.533 . . . . .	217.58
	5' X 8' . . . . .	4.533 . . . . .	181.32
	5' X 10' . . . . .	4.533 . . . . .	226.65
11GA	4' X 8' . . . . .	5.160 . . . . .	165.12
	4' X 10' . . . . .	5.160 . . . . .	206.40
10GA	4' X 8' . . . . .	5.780 . . . . .	184.96
	4' X 10' . . . . .	5.780 . . . . .	231.20
	5' X 10' . . . . .	5.780 . . . . .	289.00
8GA	4' X 10' . . . . .	6.880 . . . . .	275.20
	5' X 8' . . . . .	6.880 . . . . .	275.20
	5' X 10' . . . . .	6.880 . . . . .	344.00

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# Plate

## Plate – Structural . . . . . 68

### ASTM A36 . . . . . 68-72

- ASTM A36 is a structural quality carbon steel for use in welded, bolted or riveted construction of bridges and buildings, and for general structural purposes. Minimum yield strength of 36 ksi (250 MPa) is required to meet the requirements of A36. ASTM A36 plate is used in a variety of applications which include, but not limited to; railroad cars, trucks, agriculture equipment, trailers, construction equipment, buildings and bridges.
- Mechanical Properties

YP (MPa), min.	Tensile (MPa)	Elongation in 2" (50mm), min. %	Carbon max % (thickness dependent)
36 (250)	58-80 (400-550)	23	.25-.29

## Plate – High Strength . . . . . 73 Low Alloy

### A572 gr50 . . . . . 73-77

- ASTM A572 is a high strength low alloy steel that offers a higher strength than plain carbon steel plates – plus ductility, weldability, formability, toughness and fatigue strength. A572 meets a minimum strength requirement (dependent on grade) and provides good workability and weldability at a moderate price. A572 plate is used in a variety of applications which include, but not limited to; railroad cars, trucks, trailers, agriculture equipment, construction equipment, buildings and bridges. Charpy V-notch Impact Toughness and Maximum Tensile Strength are supplementary requirements that may be requested.
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
50 (345)	65 (450)	21

### ASTM A588 . . . . . 77

- This specification covers high strength low alloy plate where savings in weight and added durability are important. The atmospheric corrosion resistance of this steel in most environments is substantially better than that of carbon structural steels with or without copper addition. When properly exposed to the atmosphere, this steel is suitable for many

applications in the bare (unpainted) condition.

**A656 gr80** . . . . .78

- This specification covers high-strength low-alloy, hot rolled structural steel plate for use in truck frames, brackets, crane booms, rail cars, and similar applications. Steels that conform to this specification offer improved formability. These steels are normally furnished in the as-rolled condition
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
80 (550)	90 (620)	15

**Plate - Ultra High Strength Steel - Low Alloy** . . . . . 79

**700MC/100XF/110XF/Gr100** . . . . .79

- These extra high strength structural steel grades offer excellent bendability, weldability and cutting properties. The extra high strength steel grades are used in applications such as truck chassis, cranes and earthmoving machines. In these applications, the high strength of the steels is used to save weight and/or to increase the payload. As a result of this and the good formability of the steels, the total costs can be reduced.
- Mechanical Properties

YP (MPa), min.	Tensile (MPa), min.	Elongation in 2" (50mm), min. %
100 (690)	110 (760)	15

**Plate – High Strength Quenched & Tempered** . . . . . 79

**ASTM A514** . . . . .79-82

- A514 plate is a quenched and tempered alloy steel utilized in structural applications requiring high strength combined with good formability and toughness. A514 has minimum yield strength of 100ksi (690MPa) and can be ordered with supplemental Charpy V-notch impact test requirements. A514 plate is used in a variety of structural applications which include; transport trailers, construction equipment, crane booms, mobile man-lifts, agricultural equipment, heavy vehicle frames and chassis and welded bridge structural members. Charpy V-Notch Impact Toughness requirements may be ordered as a supplementary requirement. **Available in Gr B, Gr E, Gr F, Gr H and Gr S.**



- Mechanical Properties

Tensile test is performed in the transverse direction according to ASTM A6 requirements. The minimum values are tabulated below:

YP ksi (MPa), min.	Tensile ksi (MPa)	Elongation in 2" (50mm), min. %	Reduction of Area, min. %
100 (690)	110-130 (760-895)	16	35

## Plate – Ultra High Strength Quenched & Tempered . . . . . 83

### 130KSI. . . . . 83-84

- 130K material is an ultra-high strength quenched and tempered alloy plate with a very high strength and low temperature toughness (ductility). It also exhibits enhanced corrosion protection when compared to carbon steel plate. The structural alloy provides the opportunity to reduce component weight through offering a high strength to weight ratio. 130K ultra-high strength alloy plate is used in a variety of applications which include; mining equipment, shredders, bridges, buckets, forestry equipment, transport trailers, construction equipment, crane booms, mobile man-lifts, agricultural equipment, heavy vehicle frames and chassis.

- Mechanical Properties

YP (MPa), min.	Tensile (MPa)	Elongation in 2" (50mm), min. %
130 (900)	136-160 (940-1,100)	16

Impact Toughness = typical longitudinal and transverse charpy impact toughness values exceed 20ft-lbs (27J) at -40 F (-40 C).

**Typical CE value for 130K steel is .62.**

$$CE = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15.$$

## Plate –Abrasion Resistant .84-89

### AR200 . . . . . 84

- AR200 is an as-rolled, carbon-steel plate with a nominal hardness of between 180-235 HBW, intended for moderate wear applications. AR200 is available as cut-to-length plate and discrete plate. AR200 is not intended for structural applications. Typical applications for AR200 steel plate include cement mixer drums and fins, bulk material handling chute liners, skirt board liners, and screw conveyers.

**AR400F . . . . .85-86**

- AR400F is an abrasion resistant specialty plate product specifically designed for service applications that require both wear resistance and impact toughness. It is excellent solution if you are looking for a superior combination of hardness, abrasion resistance, formability, weldability, toughness and flatness. AR400F plate is designed with a through thickness Brinell hardness range of 360-444 and a nominal hardness of 400BHN. AR400F plate is used in equipment subject to abrasive wear. Applications for AR400F include truck beds, crushers, hoppers, buckets, chutes, bulldozers, conveyor troughs, bulldozers, concrete mixer drums and excavators.

**AR450F . . . . .87-88**

- AR450F is an abrasion resistant specialty plate product specifically designed for service applications that require both wear resistance and impact toughness. It is excellent solution if you are looking for a superior combination of hardness, abrasion resistance, formability, weldability, toughness and flatness. AR450F plate is designed with a through thickness Brinell hardness range of 430-480 and a nominal hardness of 450BHN. AR450F has similar chemistry and physical characteristics of AR400F with slightly higher hardness levels. AR450F plate is used in equipment where resistance to sliding abrasion is critical. Industries requiring AR450F include heavy construction, raw material handling, mining, aggregate, road building, scrap processing, demolition, forestry and oil and gas exploration.

**AR500F . . . . .88-89**

- **AR500F** is an abrasion resistant specialty plate product specifically designed for service applications that require both wear resistance and impact toughness. It is excellent solution if you are looking for a superior combination of hardness, abrasion resistance, formability, weldability, toughness and flatness. AR500F plate is designed with a through thickness Brinell hardness range of 470-530 and a nominal hardness of 500BHN. AR500F plate is used in equipment where resistance to sliding abrasion is critical. Product applications requiring AR500F include dump bodies, conveyors, crushers, hoppers, chutes, pavers, gears, rock hammers, screens, grapples, knives, shovels, etc.

# Plate – Medium Carbon

**A830 – SAE 1045** . . . . . 90

- This specification covers structural quality carbon steel plates furnished to chemical composition requirements.
- Chemical Properties

Carbon	Manganese	Phosphorous (max)	Sulfur (max)
.43 to .50	.60 to .90	0.035	0.04

# Plate - Alloy Steel

**4140** . . . . . 90

- This specification covers structural quality alloy steel plates. The plates are usually specified to chemical composition requirements, but tensile properties may also be specified.

# HOT ROLL STRUCTURAL PLATE

A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>10GA (A1011)</b>	8' X 10' . . . . .	5.625 . . . . .	450.00
	8' X 12' . . . . .	5.625 . . . . .	540.00
	8' X 20' . . . . .	5.625 . . . . .	900.00
<b>3/16</b>	8' X 24' . . . . .	5.625 . . . . .	1080.00
	8' X 8' . . . . .	7.651 . . . . .	489.66
	8' X 10' . . . . .	7.651 . . . . .	612.08
	8' X 12' . . . . .	7.651 . . . . .	734.50
	8' X 20' . . . . .	7.651 . . . . .	1224.16
<b>1/4</b>	8' X 24' . . . . .	7.651 . . . . .	1468.99
	8' X 8' . . . . .	10.200 . . . . .	652.80
	8' X 10' . . . . .	10.200 . . . . .	816.00
	8' X 12' . . . . .	10.200 . . . . .	979.20
	8' X 20' . . . . .	10.200 . . . . .	1632.00
<b>5/16</b>	8' X 24' . . . . .	10.200 . . . . .	1958.40
	8' X 8' . . . . .	12.750 . . . . .	816.00
	8' X 10' . . . . .	12.750 . . . . .	1020.00
	8' X 12' . . . . .	12.750 . . . . .	1224.00
	8' X 20' . . . . .	12.750 . . . . .	2040.00
<b>3/8</b>	8' X 24' . . . . .	12.750 . . . . .	2448.00
	8' X 8' . . . . .	15.300 . . . . .	979.20
	8' X 10' . . . . .	15.300 . . . . .	1224.00
	8' X 12' . . . . .	15.300 . . . . .	1468.80
	8' X 20' . . . . .	15.300 . . . . .	2448.00
<b>1/2</b>	8' X 24' . . . . .	15.300 . . . . .	2937.60
	8' X 8' . . . . .	20.400 . . . . .	1305.60
	8' X 10' . . . . .	20.400 . . . . .	1632.00
	8' X 12' . . . . .	20.400 . . . . .	1958.40
	8' X 20' . . . . .	20.400 . . . . .	3264.00
<b>5/8</b>	8' X 24' . . . . .	20.400 . . . . .	3916.80
	5' X 8' . . . . .	25.530 . . . . .	1021.20
	5' X 10' . . . . .	25.530 . . . . .	1276.50
	5' X 12' . . . . .	25.530 . . . . .	1531.80
	6' X 8' . . . . .	25.530 . . . . .	1225.44
	6' X 10' . . . . .	25.530 . . . . .	1531.80
	6' X 12' . . . . .	25.530 . . . . .	1838.16
	8' X 8' . . . . .	25.530 . . . . .	1633.92
	8' X 10' . . . . .	25.530 . . . . .	2042.40
	8' X 12' . . . . .	25.530 . . . . .	2450.88
<b>3/4</b>	8' X 20' . . . . .	25.530 . . . . .	4084.80
	10' X 20' . . . . .	25.530 . . . . .	5106.00
	4' X 8' . . . . .	30.630 . . . . .	980.16
	4' X 10' . . . . .	30.630 . . . . .	1225.20
	4' X 12' . . . . .	30.630 . . . . .	1470.24
	5' X 8' . . . . .	30.630 . . . . .	1225.20
	5' X 10' . . . . .	30.630 . . . . .	1531.50
	5' X 12' . . . . .	30.630 . . . . .	1837.80
	6' X 8' . . . . .	30.630 . . . . .	1470.24
	6' X 10' . . . . .	30.630 . . . . .	1837.80
	6' X 12' . . . . .	30.630 . . . . .	2205.36
	8' X 8' . . . . .	30.630 . . . . .	1960.32
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 12' . . . . .	30.630 . . . . .	2940.48

# HOT ROLL STRUCTURAL PLATE

(cont.) A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/4	8' X 20' . . . . .	30.630 . . . . .	4900.80
	8' X 24' . . . . .	30.630 . . . . .	5880.96
7/8	10' X 20' . . . . .	30.630 . . . . .	6126.00
	4' X 8' . . . . .	35.740 . . . . .	1143.68
	4' X 10' . . . . .	35.740 . . . . .	1429.60
	4' X 12' . . . . .	35.740 . . . . .	1715.52
	5' X 8' . . . . .	35.740 . . . . .	1429.60
	5' X 10' . . . . .	35.740 . . . . .	1787.00
	5' X 12' . . . . .	35.740 . . . . .	2144.40
	6' X 8' . . . . .	35.740 . . . . .	1715.52
	8' X 10' . . . . .	35.740 . . . . .	2859.20
	8' X 12' . . . . .	35.740 . . . . .	3431.04
	8' X 20' . . . . .	35.740 . . . . .	5718.40
1	10' X 20' . . . . .	35.740 . . . . .	7148.00
	4' X 8' . . . . .	40.840 . . . . .	1306.88
	4' X 10' . . . . .	40.840 . . . . .	1633.60
	4' X 12' . . . . .	40.840 . . . . .	1960.32
	5' X 8' . . . . .	40.840 . . . . .	1633.60
	5' X 10' . . . . .	40.840 . . . . .	2042.00
	5' X 12' . . . . .	40.840 . . . . .	2450.40
	6' X 8' . . . . .	40.840 . . . . .	1960.32
	8' X 8' . . . . .	40.840 . . . . .	2613.76
	8' X 10' . . . . .	40.840 . . . . .	3267.20
	8' X 12' . . . . .	40.840 . . . . .	3920.64
1 1/8	8' X 20' . . . . .	40.840 . . . . .	6534.40
	10' X 20' . . . . .	40.840 . . . . .	8168.00
	4' X 8' . . . . .	45.950 . . . . .	1470.40
	4' X 10' . . . . .	45.950 . . . . .	1838.00
	4' X 12' . . . . .	45.950 . . . . .	2205.60
	5' X 8' . . . . .	45.950 . . . . .	1838.00
	6' X 8' . . . . .	45.950 . . . . .	2205.60
	8' X 8' . . . . .	45.950 . . . . .	2940.80
	8' X 10' . . . . .	45.950 . . . . .	3676.00
	8' X 12' . . . . .	45.950 . . . . .	4411.20
	8' X 20' . . . . .	45.950 . . . . .	7352.00
1 1/4	4' X 8' . . . . .	51.000 . . . . .	1632.00
	4' X 10' . . . . .	51.000 . . . . .	2040.00
	4' X 12' . . . . .	51.000 . . . . .	2448.00
	5' X 8' . . . . .	51.000 . . . . .	2040.00
	5' X 10' . . . . .	51.000 . . . . .	2550.00
	5' X 12' . . . . .	51.000 . . . . .	3060.00
	6' X 8' . . . . .	51.000 . . . . .	2448.00
	6' X 10' . . . . .	51.000 . . . . .	3060.00
	6' X 12' . . . . .	51.000 . . . . .	3672.00
	8' X 8' . . . . .	51.000 . . . . .	3264.00
	8' X 10' . . . . .	51.000 . . . . .	4080.00
1 3/8	8' X 12' . . . . .	51.000 . . . . .	4896.00
	8' X 20' . . . . .	51.000 . . . . .	8160.00
	10' X 20' . . . . .	51.000 . . . . .	10200.00
	4' X 8' . . . . .	56.160 . . . . .	1797.12
	4' X 10' . . . . .	56.160 . . . . .	2246.40
	4' X 12' . . . . .	56.160 . . . . .	2695.68

# HOT ROLL STRUCTURAL PLATE

(cont.) A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece	
1 3/8	5' X 8' . . . . .	56.160 . . . . .	2246.40	
	6' X 8' . . . . .	56.160 . . . . .	2695.68	
	8' X 8' . . . . .	56.160 . . . . .	3594.24	
	8' X 10' . . . . .	56.160 . . . . .	4492.80	
	8' X 12' . . . . .	56.160 . . . . .	5391.36	
	8' X 20' . . . . .	56.160 . . . . .	8985.60	
1 1/2	4' X 8' . . . . .	61.258 . . . . .	1960.26	
	4' X 10' . . . . .	61.258 . . . . .	2450.32	
	4' X 12' . . . . .	61.258 . . . . .	2940.38	
	5' X 8' . . . . .	61.258 . . . . .	2450.32	
	5' X 10' . . . . .	61.258 . . . . .	3062.90	
	5' X 12' . . . . .	61.258 . . . . .	3675.48	
	6' X 8' . . . . .	61.258 . . . . .	2940.38	
	6' X 10' . . . . .	61.258 . . . . .	3675.48	
	6' X 12' . . . . .	61.258 . . . . .	4410.58	
	8' X 8' . . . . .	61.258 . . . . .	3920.51	
	8' X 10' . . . . .	61.258 . . . . .	4900.64	
	8' X 12' . . . . .	61.258 . . . . .	5880.77	
	8' X 20' . . . . .	61.258 . . . . .	9801.28	
	10' X 20' . . . . .	61.258 . . . . .	12251.60	
1 5/8	4' X 8' . . . . .	66.370 . . . . .	2123.84	
	4' X 10' . . . . .	66.370 . . . . .	2654.80	
	4' X 12' . . . . .	66.370 . . . . .	3185.76	
	5' X 8' . . . . .	66.370 . . . . .	2654.80	
	6' X 8' . . . . .	66.370 . . . . .	3185.76	
	8' X 8' . . . . .	66.370 . . . . .	4247.68	
	8' X 10' . . . . .	66.370 . . . . .	5309.60	
	8' X 12' . . . . .	66.370 . . . . .	6371.52	
	8' X 20' . . . . .	66.370 . . . . .	10619.20	
	1 3/4	4' X 8' . . . . .	71.470 . . . . .	2287.04
4' X 10' . . . . .		71.470 . . . . .	2858.80	
4' X 12' . . . . .		71.470 . . . . .	3430.56	
5' X 8' . . . . .		71.470 . . . . .	2858.80	
6' X 8' . . . . .		71.470 . . . . .	3430.56	
8' X 10' . . . . .		71.470 . . . . .	5717.60	
8' X 12' . . . . .		71.470 . . . . .	6861.12	
8' X 20' . . . . .		71.470 . . . . .	11435.20	
2		4' X 8' . . . . .	81.680 . . . . .	2613.76
		4' X 10' . . . . .	81.680 . . . . .	3267.20
	4' X 12' . . . . .	81.680 . . . . .	3920.64	
	5' X 8' . . . . .	81.680 . . . . .	3267.20	
	5' X 10' . . . . .	81.680 . . . . .	4084.00	
	5' X 12' . . . . .	81.680 . . . . .	4900.80	
	6' X 8' . . . . .	81.680 . . . . .	3920.64	
	6' X 10' . . . . .	81.680 . . . . .	4900.80	
	8' X 8' . . . . .	81.680 . . . . .	5227.52	
	8' X 10' . . . . .	81.680 . . . . .	6534.40	
	8' X 12' . . . . .	81.680 . . . . .	7841.28	
	8' X 20' . . . . .	81.680 . . . . .	13068.80	
	10' X 20' . . . . .	81.680 . . . . .	16336.00	
2 1/8	4' X 8' . . . . .	86.790 . . . . .	2777.28	
	4' X 10' . . . . .	86.790 . . . . .	3471.60	

# HOT ROLL STRUCTURAL PLATE

(cont.) A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
2 1/8	5' X 8' . . . . .	86.790 . . . . .	3471.60
	8' X 10' . . . . .	86.790 . . . . .	6943.20
	8' X 20' . . . . .	86.790 . . . . .	13886.40
2 1/4	4' X 8' . . . . .	91.890 . . . . .	2940.48
	4' X 10' . . . . .	91.890 . . . . .	3675.60
	4' X 12' . . . . .	91.890 . . . . .	4410.72
	5' X 8' . . . . .	91.890 . . . . .	3675.60
	6' X 8' . . . . .	91.890 . . . . .	4410.72
	8' X 10' . . . . .	91.890 . . . . .	7351.20
	8' X 20' . . . . .	91.890 . . . . .	14702.40
2 1/2	4' X 8' . . . . .	102.100 . . . . .	3267.20
	4' X 10' . . . . .	102.100 . . . . .	4084.00
	4' X 12' . . . . .	102.100 . . . . .	4900.80
	5' X 8' . . . . .	102.100 . . . . .	4084.00
	8' X 8' . . . . .	102.100 . . . . .	6534.40
	8' X 10' . . . . .	102.100 . . . . .	8168.00
	8' X 12' . . . . .	102.100 . . . . .	9801.60
	8' X 20' . . . . .	102.100 . . . . .	16336.00
	2 3/4	4' X 8' . . . . .	112.300 . . . . .
4' X 10' . . . . .		112.300 . . . . .	4492.00
5' X 8' . . . . .		112.300 . . . . .	4492.00
6' X 8' . . . . .		112.300 . . . . .	5390.40
8' X 8' . . . . .		112.300 . . . . .	7187.20
8' X 10' . . . . .		112.300 . . . . .	8984.00
8' X 12' . . . . .		112.300 . . . . .	10780.80
8' X 20' . . . . .		112.300 . . . . .	17968.00
3		4' X 8' . . . . .	122.406 . . . . .
	4' X 10' . . . . .	122.406 . . . . .	4896.24
	5' X 8' . . . . .	122.406 . . . . .	4896.24
	6' X 8' . . . . .	122.406 . . . . .	5875.49
	8' X 8' . . . . .	122.406 . . . . .	7833.98
	8' X 10' . . . . .	122.406 . . . . .	9792.48
	8' X 20' . . . . .	122.406 . . . . .	19584.96
3 1/2	4' X 8' . . . . .	142.940 . . . . .	4574.08
	4' X 10' . . . . .	142.940 . . . . .	5717.60
	5' X 8' . . . . .	142.940 . . . . .	5717.60
	6' X 8' . . . . .	142.940 . . . . .	6861.12
	8' X 8' . . . . .	142.940 . . . . .	9148.16
	8' X 10' . . . . .	142.940 . . . . .	11435.20
	8' X 20' . . . . .	142.940 . . . . .	22870.40
3 3/4	4' X 8' . . . . .	153.200 . . . . .	4902.40
	4' X 10' . . . . .	153.200 . . . . .	6128.00
	5' X 8' . . . . .	153.200 . . . . .	6128.00
	6' X 8' . . . . .	153.200 . . . . .	7353.60
	8' X 8' . . . . .	153.200 . . . . .	9804.80
	8' X 10' . . . . .	153.200 . . . . .	12256.00
	8' X 20' . . . . .	153.200 . . . . .	24512.00
4	4' X 8' . . . . .	163.400 . . . . .	5228.80
	4' X 10' . . . . .	163.400 . . . . .	6536.00
	5' X 8' . . . . .	163.400 . . . . .	6536.00
	6' X 8' . . . . .	163.400 . . . . .	7843.20
	8' X 8' . . . . .	163.400 . . . . .	10457.60

# HOT ROLL STRUCTURAL PLATE

(cont.) A36

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
4	8' X 10' . . . . .	163.400 . . . . .	13072.00
	8' X 20' . . . . .	163.400 . . . . .	26144.00
5	4' X 8' . . . . .	204.200 . . . . .	6534.40
	4' X 10' . . . . .	204.200 . . . . .	8168.00
	5' X 8' . . . . .	204.200 . . . . .	8168.00
	6' X 8' . . . . .	204.200 . . . . .	9801.60
	8' X 8' . . . . .	204.200 . . . . .	13068.80
	8' X 10' . . . . .	204.200 . . . . .	16336.00
	8' X 20' . . . . .	204.200 . . . . .	32672.00
6	4' X 8' . . . . .	245.040 . . . . .	7841.28
7	4' X 8' . . . . .	285.900 . . . . .	9148.80



# HIGH STRENGTH-LOW ALLOY PLATE

A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	8' X 8' . . . . .	7.651 . . . . .	489.66
	8' X 10' . . . . .	7.651 . . . . .	612.08
	8' X 12' . . . . .	7.651 . . . . .	734.50
	8' X 20' . . . . .	7.651 . . . . .	1224.16
1/4	8' X 8' . . . . .	10.200 . . . . .	652.80
	8' X 10' . . . . .	10.200 . . . . .	816.00
	8' X 12' . . . . .	10.200 . . . . .	979.20
	8' X 20' . . . . .	10.200 . . . . .	1632.00
5/16	8' X 8' . . . . .	12.750 . . . . .	816.00
	8' X 10' . . . . .	12.750 . . . . .	1020.00
	8' X 12' . . . . .	12.750 . . . . .	1224.00
	8' X 20' . . . . .	12.750 . . . . .	2040.00
3/8	8' X 8' . . . . .	15.300 . . . . .	979.20
	8' X 10' . . . . .	15.300 . . . . .	1224.00
	8' X 12' . . . . .	15.300 . . . . .	1468.80
	8' X 20' . . . . .	15.300 . . . . .	2448.00
1/2	8' X 8' . . . . .	20.400 . . . . .	1305.60
	8' X 10' . . . . .	20.400 . . . . .	1632.00
	8' X 12' . . . . .	20.400 . . . . .	1958.40
	8' X 20' . . . . .	20.400 . . . . .	3264.00
5/8	4' X 8' . . . . .	25.530 . . . . .	816.96
	4' X 10' . . . . .	25.530 . . . . .	1021.20
	4' X 12' . . . . .	25.530 . . . . .	1225.44
	5' X 8' . . . . .	25.530 . . . . .	1021.20
	5' X 10' . . . . .	25.530 . . . . .	1276.50
	5' X 12' . . . . .	25.530 . . . . .	1531.80
	6' X 8' . . . . .	25.530 . . . . .	1225.44
	6' X 10' . . . . .	25.530 . . . . .	1531.80
	6' X 12' . . . . .	25.530 . . . . .	1838.16
	8' X 8' . . . . .	25.530 . . . . .	1633.92
	8' X 10' . . . . .	25.530 . . . . .	2042.40
	8' X 12' . . . . .	25.530 . . . . .	2450.88
	8' X 20' . . . . .	25.530 . . . . .	4084.80
	10' X 20' . . . . .	25.530 . . . . .	5106.00
3/4	4' X 8' . . . . .	30.630 . . . . .	980.16
	4' X 10' . . . . .	30.630 . . . . .	1225.20
	4' X 12' . . . . .	30.630 . . . . .	1470.24
	5' X 8' . . . . .	30.630 . . . . .	1225.20
	5' X 10' . . . . .	30.630 . . . . .	1531.50
	5' X 12' . . . . .	30.630 . . . . .	1837.80
	6' X 8' . . . . .	30.630 . . . . .	1470.24
	6' X 10' . . . . .	30.630 . . . . .	1837.80
	6' X 12' . . . . .	30.630 . . . . .	2205.36
	8' X 8' . . . . .	30.630 . . . . .	1960.32
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 12' . . . . .	30.630 . . . . .	2940.48
	8' X 20' . . . . .	30.630 . . . . .	4900.80
	10' X 20' . . . . .	30.630 . . . . .	6126.00
10' X 24' . . . . .	30.630 . . . . .	7351.20	

# HIGH STRENGTH- LOW ALLOY PLATE (cont.)

A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
7/8	4' X 8'	35.740	1143.68
	4' X 10'	35.740	1429.60
	4' X 12'	35.740	1715.52
	5' X 8'	35.740	1429.60
	5' X 10'	35.740	1787.00
	5' X 12'	35.740	2144.40
	6' X 8'	35.740	1715.52
	8' X 8'	35.740	2287.36
	8' X 10'	35.740	2859.20
	8' X 12'	35.740	3431.04
	8' X 20'	35.740	5718.40
	8' X 24'	35.740	6862.08
	10' X 20'	35.740	7148.00
1	4' X 8'	40.840	1306.88
	4' X 10'	40.840	1633.60
	4' X 12'	40.840	1960.32
	5' X 8'	40.840	1633.60
	5' X 10'	40.840	2042.00
	5' X 12'	40.840	2450.40
	6' X 8'	40.840	1960.32
	6' X 10'	40.840	2450.40
	6' X 12'	40.840	2940.48
	8' X 8'	40.840	2613.76
	8' X 10'	40.840	3267.20
	8' X 12'	40.840	3920.64
	8' X 20'	40.840	6534.40
10' X 20'	40.840	8168.00	
1 1/8	4' X 8'	45.950	1470.40
	4' X 10'	45.950	1838.00
	5' X 8'	45.950	1838.00
	6' X 8'	45.950	2205.60
	8' X 8'	45.950	2940.80
	8' X 10'	45.950	3676.00
	8' X 12'	45.950	4411.20
	8' X 20'	45.950	7352.00
1 1/4	4' X 8'	51.000	1632.00
	4' X 10'	51.000	2040.00
	5' X 8'	51.000	2040.00
	5' X 10'	51.000	2550.00
	6' X 8'	51.000	2448.00
	8' X 8'	51.000	3264.00
	8' X 10'	51.000	4080.00
	8' X 12'	51.000	4896.00
	8' X 20'	51.000	8160.00
	10' X 20'	51.000	10200.10
1 3/8	4' X 8'	56.160	1797.12
	4' X 10'	56.160	2246.40
	6' X 8'	56.160	2695.68
	8' X 8'	56.160	3594.24
	8' X 10'	56.160	4492.80

# HIGH STRENGTH- LOW ALLOY PLATE (cont.)

A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece	
1 3/8	8' X 12' . . . . .	56.160 . . . . .	5391.36	
	8' X 20' . . . . .	56.160 . . . . .	8985.60	
1 1/2	4' X 8' . . . . .	61.258 . . . . .	1960.26	
	4' X 10' . . . . .	61.258 . . . . .	2450.32	
	4' X 12' . . . . .	61.258 . . . . .	2940.38	
	5' X 8' . . . . .	61.258 . . . . .	2450.32	
	5' X 10' . . . . .	61.258 . . . . .	3062.90	
	6' X 8' . . . . .	61.258 . . . . .	2940.38	
	8' X 8' . . . . .	61.258 . . . . .	3920.51	
	8' X 10' . . . . .	61.258 . . . . .	4900.64	
	8' X 12' . . . . .	61.258 . . . . .	5880.77	
	8' X 20' . . . . .	61.258 . . . . .	9801.28	
1 5/8	10' X 20' . . . . .	61.258 . . . . .	12251.60	
	4' X 8' . . . . .	66.370 . . . . .	2123.84	
	4' X 10' . . . . .	66.370 . . . . .	2654.80	
	5' X 8' . . . . .	66.370 . . . . .	2654.80	
	6' X 8' . . . . .	66.370 . . . . .	3185.76	
	8' X 8' . . . . .	66.370 . . . . .	4247.68	
	8' X 10' . . . . .	66.370 . . . . .	5309.60	
	8' X 12' . . . . .	66.370 . . . . .	6371.52	
	8' X 20' . . . . .	66.370 . . . . .	10619.20	
	1 3/4	4' X 8' . . . . .	71.470 . . . . .	2287.04
		4' X 10' . . . . .	71.470 . . . . .	2858.80
5' X 8' . . . . .		71.470 . . . . .	2858.80	
6' X 8' . . . . .		71.470 . . . . .	3430.56	
8' X 8' . . . . .		71.470 . . . . .	4574.08	
8' X 10' . . . . .		71.470 . . . . .	5717.60	
8' X 20' . . . . .		71.470 . . . . .	11435.20	
2	4' X 8' . . . . .	81.680 . . . . .	2613.76	
	4' X 10' . . . . .	81.680 . . . . .	3267.20	
	5' X 8' . . . . .	81.680 . . . . .	3267.20	
	6' X 8' . . . . .	81.680 . . . . .	3920.64	
	8' X 8' . . . . .	81.680 . . . . .	5227.52	
	8' X 10' . . . . .	81.680 . . . . .	6534.40	
	8' X 12' . . . . .	81.680 . . . . .	7841.28	
	8' X 20' . . . . .	81.680 . . . . .	13068.80	
2 1/8	4' X 8' . . . . .	86.790 . . . . .	2777.28	
	4' X 10' . . . . .	86.790 . . . . .	3471.60	
	8' X 10' . . . . .	86.790 . . . . .	6943.20	
	8' X 20' . . . . .	86.790 . . . . .	13886.40	
2 1/4	4' X 8' . . . . .	91.890 . . . . .	2940.48	
	4' X 10' . . . . .	91.890 . . . . .	3675.60	
	4' X 12' . . . . .	91.890 . . . . .	4410.72	
	5' X 8' . . . . .	91.890 . . . . .	3675.60	
	6' X 8' . . . . .	91.890 . . . . .	4410.72	
	8' X 8' . . . . .	91.890 . . . . .	5880.96	
	8' X 10' . . . . .	91.890 . . . . .	7351.20	
	8' X 12' . . . . .	91.890 . . . . .	8821.44	
8' X 20' . . . . .	91.890 . . . . .	14702.40		

# HIGH STRENGTH- LOW ALLOY PLATE (cont.)

A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
2 1/2	4' X 8'	102.100	3267.20
	4' X 10'	102.100	4084.00
	5' X 8'	102.100	4084.00
	6' X 8'	102.100	4900.80
	8' X 10'	102.100	8168.00
	8' X 12'	102.100	9801.60
	8' X 20'	102.100	16336.00
2 3/4	4' X 8'	112.300	3593.60
	4' X 10'	112.300	4492.00
	4' X 12'	112.300	5390.40
	5' X 8'	112.300	4492.00
	6' X 8'	112.300	5390.40
	8' X 8'	112.300	7187.20
	8' X 10'	112.300	8984.00
	8' X 12'	112.300	10780.80
	8' X 20'	112.300	17968.00
3	4' X 8'	122.406	3916.99
	4' X 10'	122.406	4896.24
	5' X 8'	122.406	4896.24
	6' X 8'	122.406	5875.49
	8' X 8'	122.406	7833.96
	8' X 10'	122.406	9792.48
	8' X 12'	122.406	11750.98
	8' X 20'	122.406	19584.96
3 1/4	4' X 8'	132.700	4246.40
	4' X 10'	132.700	5308.00
	5' X 8'	132.700	5308.00
	6' X 8'	132.700	6369.60
	8' X 8'	132.700	8492.80
	8' X 10'	132.700	10616.00
	8' X 12'	132.700	12739.20
	8' X 20'	132.700	21232.00
3 1/2	4' X 8'	142.940	4574.08
	4' X 10'	142.940	5717.60
	5' X 8'	142.940	5717.60
	6' X 8'	142.940	6861.12
	8' X 8'	142.940	9148.16
	8' X 10'	142.940	11435.20
	8' X 12'	142.940	13722.24
	8' X 20'	142.940	22870.40
3 3/4	4' X 8'	153.200	4902.40
	4' X 10'	153.200	6128.00
	5' X 8'	153.200	6128.00
	6' X 8'	153.200	7353.60
	8' X 8'	153.200	9804.80
	8' X 10'	153.200	12256.00
	8' X 12'	153.200	14707.20
4	8' X 20'	153.200	24512.00
	4' X 8'	163.400	5228.80
	4' X 10'	163.400	6536.00

## HIGH STRENGTH- LOW ALLOY PLATE (cont.)

A572 gr50

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
4	5' X 8' . . . . .	163.400 . . . . .	6536.00
	6' X 8' . . . . .	163.400 . . . . .	7843.20
	8' X 8' . . . . .	163.400 . . . . .	10457.60
	8' X 10' . . . . .	163.400 . . . . .	13072.00
	8' X 12' . . . . .	163.400 . . . . .	15682.56
4 1/2	4' X 10' . . . . .	183.800 . . . . .	7352.00
5	4' X 8' . . . . .	204.200 . . . . .	6534.40
6 1/2	5' X 10' . . . . .	265.500 . . . . .	13275.00

## HIGH STRENGTH- LOW ALLOY PLATE

A588

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	4' X 8' . . . . .	7.651 . . . . .	244.83
	4' X 10' . . . . .	7.651 . . . . .	306.04
	8' X 10' . . . . .	7.651 . . . . .	612.08
	8' X 20' . . . . .	7.651 . . . . .	1224.16
1/4	4' X 8' . . . . .	10.200 . . . . .	326.40
	4' X 10' . . . . .	10.200 . . . . .	408.00
	5' X 8' . . . . .	10.200 . . . . .	408.00
	8' X 10' . . . . .	10.200 . . . . .	816.00
3/8	8' X 20' . . . . .	10.200 . . . . .	1632.00
	4' X 10' . . . . .	15.300 . . . . .	612.00
3/4	8' X 20' . . . . .	15.300 . . . . .	2448.00
	4' X 8' . . . . .	30.630 . . . . .	980.16
1	4' X 10' . . . . .	30.630 . . . . .	1225.20
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 20' . . . . .	30.630 . . . . .	4900.80
	4' X 8' . . . . .	40.840 . . . . .	1306.88
1 1/4	4' X 8' . . . . .	51.000 . . . . .	1632.00
	5' X 8' . . . . .	51.000 . . . . .	2040.00
	8' X 20' . . . . .	51.000 . . . . .	8160.00
1 1/2	4' X 8' . . . . .	61.258 . . . . .	1960.24
	5' X 8' . . . . .	61.258 . . . . .	2450.32
	8' X 10' . . . . .	61.258 . . . . .	4900.64
	8' X 20' . . . . .	61.258 . . . . .	9801.28
2	4' X 8' . . . . .	81.680 . . . . .	2613.76
	5' X 8' . . . . .	81.680 . . . . .	3267.20
	8' X 20' . . . . .	81.680 . . . . .	13068.80

# HIGH STRENGTH- LOW ALLOY PLATE

A656 gr80

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/2	4' X 8' . . . . .	20.400 . . . . .	652.80
	4' X 10' . . . . .	20.400 . . . . .	816.00
	5' X 8' . . . . .	20.400 . . . . .	816.00
	5' X 10' . . . . .	20.400 . . . . .	1020.00
	6' X 10' . . . . .	20.400 . . . . .	1224.00
	6' X 12' . . . . .	20.400 . . . . .	1468.80
	6' X 20' . . . . .	20.400 . . . . .	2448.00
	8' X 10' . . . . .	20.400 . . . . .	1632.00
5/8	8' X 20' . . . . .	20.400 . . . . .	3264.00
	4' X 8' . . . . .	25.530 . . . . .	816.96
	4' X 10' . . . . .	25.530 . . . . .	1021.20
	5' X 8' . . . . .	25.530 . . . . .	1021.20
	5' X 10' . . . . .	25.530 . . . . .	1276.50
	8' X 10' . . . . .	25.530 . . . . .	2042.40
	8' X 20' . . . . .	25.530 . . . . .	4084.80
3/4	4' X 8' . . . . .	30.630 . . . . .	980.16
	4' X 10' . . . . .	30.630 . . . . .	1225.20
	5' X 8' . . . . .	30.630 . . . . .	1225.20
	5' X 10' . . . . .	30.630 . . . . .	1531.50
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 20' . . . . .	30.630 . . . . .	4900.80
1	4' X 8' . . . . .	40.840 . . . . .	1306.88
	4' X 10' . . . . .	40.840 . . . . .	1633.60
	5' X 8' . . . . .	40.840 . . . . .	1633.60
	5' X 10' . . . . .	40.840 . . . . .	2042.00
	8' X 10' . . . . .	40.840 . . . . .	3267.20
	8' X 20' . . . . .	40.840 . . . . .	6534.40

# ULTRA HIGH STRENGTH STEEL

700MC/100XF/110XF/A656 GR100

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>3MM</b>	4' X 10' . . . . .	4.814 . . . . .	192.58
	52" X 8' . . . . .	4.935 . . . . .	170.93
	52" X 10' . . . . .	4.935 . . . . .	213.66
	52" X 12' . . . . .	4.935 . . . . .	256.40
	52" X 20' . . . . .	4.935 . . . . .	427.33
<b>4MM</b>	5' X 10' . . . . .	6.607 . . . . .	330.36
	5' X 12' . . . . .	6.607 . . . . .	396.43
<b>3/16</b>	5' X 10' . . . . .	7.651 . . . . .	382.55
	5' X 12' . . . . .	7.651 . . . . .	459.06
	5' X 20' . . . . .	7.651 . . . . .	765.10
<b>1/4</b>	5' X 10' . . . . .	10.200 . . . . .	510.00
	5' X 20' . . . . .	10.200 . . . . .	1020.00
	6' X 10' . . . . .	10.200 . . . . .	612.00
	6' X 20' . . . . .	10.200 . . . . .	1224.00
	6' X 40' . . . . .	10.200 . . . . .	2448.00
<b>5/16</b>	58" X 10' . . . . .	12.750 . . . . .	617.84
<b>3/8</b>	5' X 10' . . . . .	15.300 . . . . .	765.00
	5' X 20' . . . . .	15.300 . . . . .	1530.00
<b>1/2</b>	5' X 10' . . . . .	20.400 . . . . .	1020.00
	5' X 40' . . . . .	20.400 . . . . .	4080.00

# HIGH STRENGTH- QUENCHED & TEMPERED

A514

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
<b>3/16</b>	4' X 8' . . . . .	7.651 . . . . .	244.83
	4' X 10' . . . . .	7.651 . . . . .	306.04
	4' X 12' . . . . .	7.651 . . . . .	367.25
	5' X 8' . . . . .	7.651 . . . . .	306.04
	5' X 10' . . . . .	7.651 . . . . .	382.55
	6' X 8' . . . . .	7.651 . . . . .	367.25
	6' X 10' . . . . .	7.651 . . . . .	459.06
	8' X 10' . . . . .	7.651 . . . . .	612.08
	8' X 12' . . . . .	7.651 . . . . .	734.50
	8' X 20' . . . . .	7.651 . . . . .	1224.16
	8' X 24' . . . . .	7.651 . . . . .	1468.99
	10' X 20' . . . . .	7.651 . . . . .	1530.20
	<b>1/4</b>	4' X 8' . . . . .	10.200 . . . . .
4' X 10' . . . . .		10.200 . . . . .	408.00
4' X 12' . . . . .		10.200 . . . . .	489.60
5' X 8' . . . . .		10.200 . . . . .	408.00
5' X 10' . . . . .		10.200 . . . . .	510.00

# HIGH STRENGTH- QUENCHED & TEMPERED (cont.)

A514

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/4	6' X 10'.....	10.200 .....	612.00
	8' X 10'.....	10.200 .....	816.00
	8' X 20'.....	10.200 .....	1632.00
	8' X 40'.....	10.200 .....	3264.00
5/16	4' X 8'.....	12.750 .....	408.00
	4' X 10'.....	12.750 .....	510.00
	5' X 8'.....	12.750 .....	510.00
	8' X 10'.....	12.750 .....	1020.00
	8' X 20'.....	12.750 .....	2040.00
	8' X 40'.....	12.750 .....	4080.00
3/8	4' X 8'.....	15.300 .....	489.60
	4' X 10'.....	15.300 .....	612.00
	5' X 8'.....	15.300 .....	612.00
	5' X 10'.....	15.300 .....	765.00
	6' X 10'.....	15.300 .....	918.00
	8' X 10'.....	15.300 .....	1224.00
	8' X 12'.....	15.300 .....	1468.80
	8' X 20'.....	15.300 .....	2448.00
	8' X 30'.....	15.300 .....	3672.00
	8' X 40'.....	15.300 .....	4896.00
	10' X 10'.....	15.300 .....	1530.00
	10' X 20'.....	15.300 .....	3060.00
1/2	4' X 8'.....	20.400 .....	652.80
	4' X 10'.....	20.400 .....	816.00
	4' X 12'.....	20.400 .....	979.20
	5' X 8'.....	20.400 .....	816.00
	5' X 10'.....	20.400 .....	1020.00
	6' X 8'.....	20.400 .....	979.20
	6' X 10'.....	20.400 .....	1224.00
	6' X 12'.....	20.400 .....	1468.80
	8' X 10'.....	20.400 .....	1632.00
	8' X 20'.....	20.400 .....	3264.00
	8' X 30'.....	20.400 .....	4896.00
	8' X 40'.....	20.400 .....	6528.00
5/8	10' X 10'.....	20.400 .....	2040.00
	10' X 20'.....	20.400 .....	4080.00
	10' X 40'.....	20.400 .....	8160.00
	4' X 8'.....	25.530 .....	816.96
	4' X 10'.....	25.530 .....	1021.20
	5' X 8'.....	25.530 .....	1021.20
	5' X 10'.....	25.530 .....	1276.50
	6' X 8'.....	25.530 .....	1225.44
	6' X 10'.....	25.530 .....	1531.80
	8' X 10'.....	25.530 .....	2042.40
3/4	8' X 20'.....	25.530 .....	4084.80
	8' X 40'.....	25.530 .....	8169.60
	10' X 10'.....	25.530 .....	2553.00
	10' X 20'.....	25.530 .....	5106.00
	4' X 8'.....	30.630 .....	980.16
	4' X 10'.....	30.630 .....	1225.20



# HIGH STRENGTH- QUENCHED & TEMPERED (cont.)

A514

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/4	5' X 8' . . . . .	30.630 . . . . .	1225.20
	5' X 10' . . . . .	30.630 . . . . .	1531.50
	6' X 8' . . . . .	30.630 . . . . .	1470.24
	6' X 10' . . . . .	30.630 . . . . .	1837.80
	6' X 12' . . . . .	30.630 . . . . .	2205.36
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 12' . . . . .	30.630 . . . . .	2940.48
	8' X 20' . . . . .	30.630 . . . . .	4900.80
	8' X 30' . . . . .	30.630 . . . . .	7351.20
	8' X 40' . . . . .	30.630 . . . . .	9801.60
	10' X 10' . . . . .	30.630 . . . . .	3063.00
10' X 20' . . . . .	30.630 . . . . .	6126.00	
7/8	4' X 8' . . . . .	35.740 . . . . .	1143.68
	4' X 10' . . . . .	35.740 . . . . .	1429.60
	5' X 8' . . . . .	35.740 . . . . .	1429.60
	8' X 20' . . . . .	35.740 . . . . .	5718.40
1	4' X 4' . . . . .	40.840 . . . . .	653.44
	4' X 8' . . . . .	40.840 . . . . .	1306.88
	4' X 10' . . . . .	40.840 . . . . .	1633.60
	5' X 8' . . . . .	40.840 . . . . .	1633.60
	5' X 10' . . . . .	40.840 . . . . .	2042.00
	6' X 10' . . . . .	40.840 . . . . .	2450.40
	8' X 10' . . . . .	40.840 . . . . .	3267.20
	8' X 20' . . . . .	40.840 . . . . .	6534.40
	8' X 30' . . . . .	40.840 . . . . .	9801.60
	8' X 40' . . . . .	40.840 . . . . .	13068.80
10' X 40' . . . . .	40.840 . . . . .	16336.00	
1 1/8	4' X 8' . . . . .	45.950 . . . . .	1470.40
	4' X 10' . . . . .	45.950 . . . . .	1838.00
	5' X 8' . . . . .	45.950 . . . . .	1838.00
	8' X 10' . . . . .	45.950 . . . . .	3676.00
	8' X 20' . . . . .	45.950 . . . . .	7352.00
1 1/4	4' X 8' . . . . .	51.000 . . . . .	1632.00
	4' X 10' . . . . .	51.000 . . . . .	2040.00
	5' X 8' . . . . .	51.000 . . . . .	2040.00
	5' X 10' . . . . .	51.000 . . . . .	2550.00
	6' X 8' . . . . .	51.000 . . . . .	2448.00
	6' X 10' . . . . .	51.000 . . . . .	3060.00
	8' X 10' . . . . .	51.000 . . . . .	4080.00
	8' X 20' . . . . .	51.000 . . . . .	8160.00
	8' X 40' . . . . .	51.000 . . . . .	16320.00
	10' X 20' . . . . .	51.000 . . . . .	10200.00
1 3/8	4' X 8' . . . . .	56.160 . . . . .	1797.12
	4' X 10' . . . . .	56.160 . . . . .	2246.40
	5' X 8' . . . . .	56.160 . . . . .	2246.40
	8' X 10' . . . . .	56.160 . . . . .	4492.80
	8' X 20' . . . . .	56.160 . . . . .	8985.60
1 1/2	4' X 4' . . . . .	61.258 . . . . .	980.13
	4' X 8' . . . . .	61.258 . . . . .	1960.26
	4' X 10' . . . . .	61.258 . . . . .	2450.32

# HIGH STRENGTH- QUENCHED & TEMPERED (cont.)

A514

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1 1/2	5' X 8' . . . . .	61.258 . . . . .	2450.32
	5' X 10' . . . . .	61.258 . . . . .	3062.90
	8' X 10' . . . . .	61.258 . . . . .	4900.64
	8' X 20' . . . . .	61.258 . . . . .	9801.28
	8' X 40' . . . . .	61.258 . . . . .	19602.56
	10' X 10' . . . . .	61.258 . . . . .	6125.80
1 3/4	10' X 20' . . . . .	61.258 . . . . .	12251.60
	4' X 8' . . . . .	71.470 . . . . .	2287.04
	4' X 10' . . . . .	71.470 . . . . .	2858.80
	5' X 8' . . . . .	71.470 . . . . .	2858.80
	8' X 10' . . . . .	71.470 . . . . .	5717.60
	8' X 20' . . . . .	71.470 . . . . .	11435.20
2	4' X 8' . . . . .	81.680 . . . . .	2613.76
	4' X 10' . . . . .	81.680 . . . . .	3267.20
	5' X 8' . . . . .	81.680 . . . . .	3267.20
	5' X 10' . . . . .	81.680 . . . . .	4084.00
	6' X 8' . . . . .	81.680 . . . . .	3920.64
	6' X 10' . . . . .	81.680 . . . . .	4900.80
	8' X 10' . . . . .	81.680 . . . . .	6534.40
	8' X 20' . . . . .	81.680 . . . . .	13068.80
	8' X 40' . . . . .	81.680 . . . . .	26137.60
	10' X 10' . . . . .	81.680 . . . . .	8168.00
2 1/2	10' X 20' . . . . .	81.680 . . . . .	16336.00
	4' X 8' . . . . .	102.100 . . . . .	3267.20
	4' X 10' . . . . .	102.100 . . . . .	4084.00
	8' X 10' . . . . .	102.100 . . . . .	8168.00
3	8' X 20' . . . . .	102.100 . . . . .	16336.00
	4' X 8' . . . . .	122.406 . . . . .	3916.99
	4' X 10' . . . . .	122.406 . . . . .	4896.24
	5' X 8' . . . . .	122.406 . . . . .	4896.24
	8' X 10' . . . . .	122.406 . . . . .	9792.48
3 1/2	8' X 20' . . . . .	122.406 . . . . .	19584.96
	4' X 10' . . . . .	142.940 . . . . .	5717.60
4	5' X 8' . . . . .	142.940 . . . . .	5717.60
	4' X 8' . . . . .	163.400 . . . . .	5228.80
	4' X 10' . . . . .	163.400 . . . . .	6536.00
5	8' X 10' . . . . .	163.400 . . . . .	13072.00
	4' X 10' . . . . .	204.200 . . . . .	8168.00
6	8' X 10' . . . . .	204.200 . . . . .	16336.00
	4' x 8' . . . . .	245.040 . . . . .	7841.28

# ULTRA HIGH STRENGTH QUENCHED & TEMPERED

130KSI

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	4' X 8'.....	7.651 .....	244.83
	4' X 10'.....	7.651 .....	306.04
1/4	4' X 8'.....	10.200 .....	326.40
	4' X 10'.....	10.200 .....	408.00
	8' X 10'.....	10.200 .....	816.00
	8' X 12'.....	10.200 .....	979.20
	8' X 20'.....	10.200 .....	1632.00
5/16	4' X 8'.....	12.750 .....	408.00
	4' X 10'.....	12.750 .....	510.00
	5' X 8'.....	12.750 .....	510.00
	8' X 10'.....	12.750 .....	1020.00
	8' X 20'.....	12.750 .....	2040.00
3/8	4' X 8'.....	15.300 .....	489.60
	4' X 10'.....	15.300 .....	612.00
	5' X 8'.....	15.300 .....	612.00
	8' X 10'.....	15.300 .....	1224.00
	8' X 20'.....	15.300 .....	2448.00
	8' X 40'.....	15.300 .....	4896.00
1/2	4' X 8'.....	20.400 .....	652.80
	4' X 10'.....	20.400 .....	816.00
	5' X 8'.....	20.400 .....	816.00
	8' X 10'.....	20.400 .....	1632.00
	8' X 20'.....	20.400 .....	3264.00
	8' X 40'.....	20.400 .....	6528.00
5/8	4' X 8'.....	25.530 .....	816.96
	4' X 10'.....	25.530 .....	1021.20
	5' X 8'.....	25.530 .....	1021.20
	8' X 10'.....	25.530 .....	2042.40
	8' X 20'.....	25.530 .....	4084.80
3/4	4' X 8'.....	30.630 .....	980.16
	4' X 10'.....	30.630 .....	1225.20
	5' X 8'.....	30.630 .....	1225.20
	8' X 10'.....	30.630 .....	2450.40
	8' X 20'.....	30.630 .....	4900.80
	8' X 40'.....	30.630 .....	9801.60
1	4' X 8'.....	40.840 .....	1306.88
	4' X 10'.....	40.840 .....	1633.60
	5' X 8'.....	40.840 .....	1633.60
	8' X 10'.....	40.840 .....	3267.20
	8' X 20'.....	40.840 .....	6534.40
	8' X 40'.....	40.840 .....	13068.80
1 1/4	4' X 8'.....	51.000 .....	1632.00
	4' X 10'.....	51.000 .....	2040.00
	5' X 8'.....	51.000 .....	2040.00
	8' X 10'.....	51.000 .....	4080.00
	8' X 20'.....	51.000 .....	8160.00
	8' X 40'.....	51.000 .....	16320.00

# ULTRA HIGH STRENGTH QUENCHED & TEMPERED

130KSI

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1 1/2	4' X 8' . . . . .	61.258 . . . . .	1960.26
	8' X 10' . . . . .	61.258 . . . . .	4900.64
	8' X 20' . . . . .	61.258 . . . . .	9801.28
2	8' X 10' . . . . .	81.680 . . . . .	6534.40
	8' X 20' . . . . .	81.680 . . . . .	13068.80

# HOT ROLL ABRASION RESISTANT PLATE

AR200

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	8' X 230" . . . . .	7.651 . . . . .	1173.31
1/4	8' X 10' . . . . .	10.200 . . . . .	816.00
	8' X 20' . . . . .	10.200 . . . . .	1632.00
	8' X 24' . . . . .	10.200 . . . . .	1958.40
5/16	8' X 10' . . . . .	12.750 . . . . .	1020.00
3/8	8' X 10' . . . . .	15.300 . . . . .	1224.00
	8' X 20' . . . . .	15.300 . . . . .	2448.00
1/2	4' X 8' . . . . .	20.400 . . . . .	652.80
	4' X 10' . . . . .	20.400 . . . . .	816.00
	5' X 8' . . . . .	20.400 . . . . .	816.00
	8' X 10' . . . . .	20.400 . . . . .	1632.00
	8' X 20' . . . . .	20.400 . . . . .	3264.00
1	8' X 20' . . . . .	40.840 . . . . .	6534.40

# HOT ROLL ABRASION RESISTANT PLATE

AR400

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
10GA	3' X 150"	5.625	211.00
3/16	4' X 8'	7.651	244.83
	4' X 10'	7.651	306.04
	5' X 8'	7.651	306.04
	5' X 10'	7.651	382.55
	8' X 10'	7.651	382.55
1/4	4' X 8'	10.200	326.40
	4' X 10'	10.200	408.00
	4' X 12'	10.200	489.60
	5' X 8'	10.200	408.00
	5' X 10'	10.200	510.00
	6' X 10'	10.200	612.00
	6' X 12'	10.200	734.40
	8' X 10'	10.200	816.00
	8' X 12'	10.200	979.20
	8' X 175"	10.200	1190.00
5/16	8' X 20'	10.200	1632.00
	5' X 10'	12.750	637.50
	8' X 24'	12.750	2448.00
3/8	4' X 8'	15.300	489.60
	4' X 10'	15.300	612.00
	4' X 12'	15.300	734.40
	5' X 8'	15.300	612.00
	5' X 10'	15.300	765.00
	6' X 10'	15.300	918.00
	6' X 12'	15.300	1101.60
	8' X 10'	15.300	1224.00
	8' X 12'	15.300	1468.80
	8' X 20'	15.300	2448.00
1/2	4' X 8'	20.400	652.80
	4' X 10'	20.400	816.00
	4' X 12'	20.400	979.20
	5' X 8'	20.400	816.00
	5' X 10'	20.400	1020.00
	6' X 8'	20.400	979.20
	6' X 10'	20.400	1224.00
	6' X 12'	20.400	1468.80
	8' X 10'	20.400	1632.00
	8' X 12'	20.400	1958.40
5/8	8' X 20'	20.400	3264.00
	4' X 8'	25.530	816.96
	4' X 10'	25.530	1021.20
	5' X 8'	25.530	1021.20
	5' X 10'	25.530	1276.50
	8' X 10'	25.530	2042.40
	8' X 20'	25.530	4084.80
3/4	4' X 8'	30.630	980.16
	4' X 10'	30.630	1225.20
	4' X 12'	30.630	1470.24
	5' X 8'	30.630	1225.20
	5' X 10'	30.630	1531.50

# HOT ROLL ABRASION RESISTANT PLATE (cont.)

AR400

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/4	6' X 8'	30.630	1470.24
	6' X 10'	30.630	1837.80
	8' X 10'	30.630	2450.40
	8' X 20'	30.630	4900.80
1	4' X 8'	40.840	1306.88
	4' X 10'	40.840	1633.60
	5' X 8'	40.840	1633.60
	5' X 10'	40.840	2042.00
	6' X 10'	40.840	2450.40
	8' X 10'	40.840	3267.20
	8' X 20'	40.840	6534.40
	8' X 20'	40.840	6534.40
1 1/4	4' X 8'	51.000	1632.00
	4' X 10'	51.000	2040.00
	5' X 10'	51.000	2550.00
	8' X 10'	51.000	4080.00
	8' X 12'	51.000	4896.00
	8' X 20'	51.000	8160.00
	8' X 24'	51.000	9792.00
	10' X 10'	51.000	5100.00
10' X 20'	51.000	10200.00	
1 1/2	4' X 8'	61.258	1960.26
	4' X 10'	61.258	2450.32
	5' X 8'	61.258	2450.32
	5' X 10'	61.258	3062.90
	8' X 10'	61.258	4900.64
	8' X 20'	61.258	9801.28
1 3/4	4' X 8'	71.470	2287.04
	5' X 8'	71.470	2858.80
2	4' X 8'	81.680	2613.76
	4' X 10'	81.680	3267.20
	5' X 8'	81.680	3267.20
	8' X 10'	81.680	6534.40
	8' X 20'	81.680	13068.80
2 1/4	4' X 8'	91.890	2940.48
	8' X 24'	91.890	17642.88
2 1/2	4' X 8'	102.100	3267.20
	5' X 8'	102.100	4084.00
	8' X 10'	102.100	8168.00
	8' X 20'	102.100	16336.00
	8' X 24'	102.100	19603.20
3	4' X 8'	122.406	3916.99
	4' X 10'	122.406	4896.24
	5' X 8'	122.406	4896.24
3 1/2	4' X 8'	142.940	4574.08
	4' X 10'	142.940	5717.60
	5' X 8'	142.940	5717.60
	8' X 10'	142.940	11435.20
4	4' X 10'	163.400	6536.00
	5' X 8'	163.400	6536.00
	8' X 10'	163.400	13072.00

# HOT ROLL ABRASION RESISTANT PLATE

AR450

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/8	4' X 12' . . . . .	5.391 . . . . .	258.76
	5' X 85" . . . . .	5.391 . . . . .	190.84
	5' X 108" . . . . .	5.391 . . . . .	242.59
	5' X 10' . . . . .	5.391 . . . . .	269.54
	8' X 10' . . . . .	5.391 . . . . .	431.27
	8' X 12' . . . . .	5.391 . . . . .	517.52
	8' X 24' . . . . .	5.391 . . . . .	1035.05
10GA	5' X 10' . . . . .	5.626 . . . . .	281.30
3/16	4' X 8' . . . . .	7.651 . . . . .	244.83
	4' X 10' . . . . .	7.651 . . . . .	306.04
	4' X 12' . . . . .	7.651 . . . . .	367.25
	5' X 10' . . . . .	7.651 . . . . .	382.55
	6' X 8' . . . . .	7.651 . . . . .	367.25
	6' X 10' . . . . .	7.651 . . . . .	459.06
	6' X 12' . . . . .	7.651 . . . . .	550.87
	6' X 20' . . . . .	7.651 . . . . .	918.12
	8' X 10' . . . . .	7.651 . . . . .	612.08
	8' X 12' . . . . .	7.651 . . . . .	734.50
	8' X 20' . . . . .	7.651 . . . . .	1224.16
	8' X 24' . . . . .	7.651 . . . . .	1468.99
	10' X 20' . . . . .	7.651 . . . . .	1530.20
1/4	4' X 8' . . . . .	10.200 . . . . .	326.40
	4' X 10' . . . . .	10.200 . . . . .	408.00
	4' X 12' . . . . .	10.200 . . . . .	489.60
	5' X 8' . . . . .	10.200 . . . . .	408.00
	5' X 10' . . . . .	10.200 . . . . .	510.00
	5' X 12' . . . . .	10.200 . . . . .	612.00
	8' X 10' . . . . .	10.200 . . . . .	816.00
	8' X 12' . . . . .	10.200 . . . . .	979.20
	8' X 20' . . . . .	10.200 . . . . .	1632.00
	8' X 24' . . . . .	10.200 . . . . .	1958.40
5/16	4' X 8' . . . . .	12.750 . . . . .	408.00
	4' X 10' . . . . .	12.750 . . . . .	510.00
	5' X 8' . . . . .	12.750 . . . . .	510.00
	6' X 8' . . . . .	12.750 . . . . .	612.00
	8' X 10' . . . . .	12.750 . . . . .	1020.00
	8' X 12' . . . . .	12.750 . . . . .	1224.00
	8' X 20' . . . . .	12.750 . . . . .	2040.00
3/8	8' X 24' . . . . .	12.750 . . . . .	2448.00
	4' X 8' . . . . .	15.300 . . . . .	489.60
	4' X 10' . . . . .	15.300 . . . . .	612.00
	4' X 12' . . . . .	15.300 . . . . .	734.40
	5' X 8' . . . . .	15.300 . . . . .	612.00
	5' X 10' . . . . .	15.300 . . . . .	765.00
	6' X 10' . . . . .	15.300 . . . . .	918.00
	6' X 12' . . . . .	15.300 . . . . .	1101.60
	8' X 10' . . . . .	15.300 . . . . .	1224.00
	8' X 12' . . . . .	15.300 . . . . .	1468.80
	8' X 20' . . . . .	15.300 . . . . .	2448.00
	8' X 24' . . . . .	15.300 . . . . .	2937.60
	10' X 20' . . . . .	15.300 . . . . .	3060.00

# HOT ROLL ABRASION RESISTANT PLATE (cont.)

AR450

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1/2	4' X 8'	20.400	652.80
	4' X 10'	20.400	816.00
	8' X 10'	20.400	1632.00
	8' X 12'	20.400	1958.40
	8' X 20'	20.400	3264.00
	8' X 24'	20.400	3916.80
5/8	4' X 8'	25.530	816.96
	8' X 24'	25.530	4901.76
3/4	4' X 8'	30.630	980.16
	4' X 10'	30.630	1225.20
	4' X 12'	30.630	1470.24
	5' X 8'	30.630	1225.20
	8' X 10'	30.630	2450.40
	8' X 12'	30.630	2940.48
	8' X 20'	30.630	4900.80
	8' X 24'	30.630	5880.96
1	4' X 8'	40.840	1306.88
	4' X 10'	40.840	1633.60
	4' X 12'	40.840	1960.32
	5' X 8'	40.840	1633.60
	8' X 10'	40.840	3267.20
	8' X 12'	40.840	3920.64
	8' X 20'	40.840	6534.40
	8' X 24'	40.840	7841.28
1 1/4	4' X 8'	51.000	1632.00
	8' X 24'	51.000	9792.00
1 1/2	4' X 8'	61.258	1960.26
	8' X 12'	61.258	5880.77
	8' X 24'	61.258	11761.54
1 3/4	4' X 8'	71.470	2287.04
2	4' X 8'	81.680	2613.76

# HOT ROLL ABRASION RESISTANT PLATE

AR500

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/16	5' X 10'	7.651	382.55
1/4	4' X 8'	10.200	326.40
	4' X 10'	10.200	408.00
	5' X 8'	10.200	408.00
	5' X 10'	10.200	510.00
	8' X 10'	10.200	816.00
	8' X 12'	10.200	979.20
3/8	4' X 8'	15.300	489.60
	4' X 10'	15.300	612.00



# HOT ROLL ABRASION RESISTANT PLATE (cont.)

AR500

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/8	5' X 8' . . . . .	15.300 . . . . .	612.00
	5' X 10' . . . . .	15.300 . . . . .	765.00
	8' X 10' . . . . .	15.300 . . . . .	1224.00
	8' X 12' . . . . .	15.300 . . . . .	1468.80
	8' X 20' . . . . .	15.300 . . . . .	2448.00
	8' X 24' . . . . .	15.300 . . . . .	2937.60
1/2	4' X 8' . . . . .	20.400 . . . . .	652.80
	4' X 10' . . . . .	20.400 . . . . .	816.00
	5' X 8' . . . . .	20.400 . . . . .	816.00
	5' X 10' . . . . .	20.400 . . . . .	1020.00
	6' X 10' . . . . .	20.400 . . . . .	1224.00
	8' X 10' . . . . .	20.400 . . . . .	1632.00
	8' X 12' . . . . .	20.400 . . . . .	1958.40
	8' X 20' . . . . .	20.400 . . . . .	3264.00
5/8	8' X 24' . . . . .	20.400 . . . . .	3916.80
	4' X 8' . . . . .	25.530 . . . . .	816.96
3/4	8' X 24' . . . . .	25.530 . . . . .	4901.76
	4' X 8' . . . . .	30.630 . . . . .	980.16
1	4' X 10' . . . . .	30.630 . . . . .	1225.20
	5' X 8' . . . . .	30.630 . . . . .	1225.20
	5' X 10' . . . . .	30.630 . . . . .	1531.50
	8' X 10' . . . . .	30.630 . . . . .	2450.40
	8' X 20' . . . . .	30.630 . . . . .	4900.80
	8' X 24' . . . . .	30.630 . . . . .	5880.96
	4' X 8' . . . . .	40.840 . . . . .	1306.88
	4' X 10' . . . . .	40.840 . . . . .	1633.60
1 1/4	5' X 8' . . . . .	40.840 . . . . .	1633.60
	5' X 10' . . . . .	40.840 . . . . .	2042.00
	8' X 10' . . . . .	40.840 . . . . .	3267.20
	8' X 20' . . . . .	40.840 . . . . .	6534.40
	8' X 24' . . . . .	40.840 . . . . .	7841.28
	4' X 8' . . . . .	51.000 . . . . .	1632.00
1 1/2	8' X 24' . . . . .	51.000 . . . . .	9792.00
	4' X 8' . . . . .	61.258 . . . . .	1960.26
	8' X 10' . . . . .	61.258 . . . . .	4900.64
2	8' X 12' . . . . .	61.258 . . . . .	5880.77
	8' X 24' . . . . .	61.258 . . . . .	11761.54
	4' X 8' . . . . .	81.680 . . . . .	2613.76
	8' X 12' . . . . .	81.680 . . . . .	7841.28
3	8' X 24' . . . . .	81.680 . . . . .	15682.56
	4' X 12' . . . . .	122.406 . . . . .	5875.49
	8' X 12' . . . . .	122.406 . . . . .	11750.98
	8' X 24' . . . . .	122.406 . . . . .	23501.95

# PLATE – MEDIUM CARBON

A830 – SAE1045

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
3/8	4' X 10'	15.300	612.00
	5' X 8'	15.300	612.00
	8' X 20'	15.300	2448.00
1/2	4' X 8'	20.400	652.80
	4' X 10'	20.400	816.00
	8' X 20'	20.400	3264.00
9/16	5' X 8'	22.970	918.80
	8' X 20'	22.970	3675.20
5/8	4' X 10'	25.530	1021.20
	5' X 8'	25.530	1021.20
	8' X 10'	25.530	2042.40
3/4	8' X 20'	25.530	4084.80
	4' X 8'	30.630	980.16
	4' X 10'	30.630	1225.20
7/8	8' X 10'	30.630	2450.40
	8' X 20'	30.630	4900.80
	5' X 8'	35.740	1429.60
1	8' X 10'	35.740	2859.20
	8' X 20'	35.740	5718.40
	4' X 8'	40.840	1306.88
1 1/8	5' X 8'	40.840	1633.60
	8' X 20'	40.840	6534.40
	4' X 8'	45.950	1470.40
1 3/8	8' X 10'	45.950	3676.00
	8' X 20'	45.950	7352.00
	8' X 20'	56.160	8985.60
1 1/2	8' X 20'	61.258	9801.28
	4' X 8'	71.470	2287.04
	8' X 10'	71.470	5717.60
1 3/4	8' X 20'	71.470	11435.20
	4' X 8'	81.680	2613.76
	5' X 8'	81.680	3267.20
2	8' X 10'	81.680	6534.40
	8' X 20'	81.680	13068.80
	6' X 20'	91.890	11026.80
2 1/4	8' X 10'	91.890	7351.20
	8' X 20'	91.890	14702.40
	5' X 8'	102.100	4084.00
2 1/2	8' X 10'	102.100	8168.00
	8' X 20'	102.100	16336.00
	8' X 10'	112.300	8984.00
3	8' X 10'	122.406	9792.48
	8' X 20'	122.406	19584.96
3 1/2	5' X 10'	142.940	7147.00

# ALLOY PLATE

4140

Thickness	Size	Wt./Sq. Ft.	Wt. Per Piece
1 1/2	4' X 10'	61.258	2450.32
	8' X 10'	61.258	4900.64
	8' X 20'	61.258	9801.28

# Grating, Expanded Metal & Deck Span

PAGE

## Flattened Expanded Metal

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**Carbon Steel . . . . . 93**

4' x 8'

Sizes ranging from:

1/4" x #18 to 1-1/2" x #9



**Aluminum . . . . . 94**

4' x 8'

Sizes:

3/4" x #9



**Stainless . . . . . 94**

4' x 8'

Sizes ranging from:

1/2" x #13 to 3/4" x #9

## Regular Expanded Metal

---



**Carbon Steel . . . . . 93**

4' x 8'

Sizes ranging from:

1/2" x #18 to 1-1/2" x #6



**Aluminum . . . . . 94**

4' x 8'

Sizes:

3/4" x #9



**Stainless . . . . . 94**

4' x 8'

Sizes ranging from:

3/4" x #9 to 1-1/2" x #9

**Walkway Grating . . . 94**

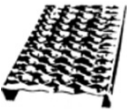
4' x 8', 4' x 10'

Sizes ranging from:  
3.0# to 6.5#

**Catwalk Grating . . . 95**

10' x 2', 6' x 10'

Sizes ranging from:  
3.0#



**Deck Span . . . . . 95**

12' Galvanized

Sizes ranging from:  
4.75" to 24"

12' Aluminum

Sizes ranging from:  
7" to 18.75"

**Bar Grate . . . . . 96**

Conforms to specifications  
RR-G661a and MIL-G-1958



**Open Steel Grating . . . . . 96**

Conforms to specifications RR-  
G661a and MIL-G-1958

Sizes ranging from:  
1" x 1/8" to 1-1/2" x 3/16"

# FLATTENED EXPANDED METAL

4' x 8'



Size	L.W.O.	S.W.O.	Weight
1/4" #18 F. . . .	0.175 . . .	0.075 . . .	34.56
1/2" #18 F. . . .	1.000 . . .	0.312 . . .	21.12
1/2" #16 F~ . .	1.000 . . .	0.312 . . .	26.24
1/2" #13 F* . . .	1.000 . . .	0.265 . . .	44.80
3/4" #16 F. . . .	1.750 . . .	0.750 . . .	16.32
3/4" #14 F. . . .	1.760 . . .	0.688 . . .	20.16
3/4" #13 F*~ . .	1.781 . . .	0.688 . . .	24.00
3/4" #9 F (10 ga.)*~	1.688 . . .	0.563 . . .	54.72
1-1/2" #16 F. . .	2.750 . . .	1.062 . . .	12.16
1-1/2" #13 F. . .	2.750 . . .	1.062 . . .	18.24
1-1/2" #9 (10 ga.)*	2.563 . . .	1.000 . . .	36.48

\* Also Available in 4' x 10' Sheets  
~Also Available in 5' x 10' Sheets

# REGULAR EXPANDED METAL

4' x 8'



Size	L.W.O.	S.W.O.	Weight
1/2" #18 . . . . .	0.938 . . .	0.438 . . .	22.40
1/2" #16 . . . . .	0.938 . . .	0.375 . . .	27.52
1/2" #13 . . . . .	0.938 . . .	0.312 . . .	47.04
3/4" #16 . . . . .	1.750 . . .	0.813 . . .	17.28
3/4" #13 . . . . .	1.688 . . .	0.750 . . .	25.60
3/4" #9 (10 ga.)*,**	1.562 . . .	0.688 . . .	57.60
1-1/2" #13. . . . .	2.500 . . .	1.188 . . .	19.20
1-1/2" #9 (10 ga.)~	2.375 . . .	1.125 . . .	38.40
1-1/2" #6*** . . .	2.313 . . .	1.110 . . .	80.00

\* Also Available in 4' x 10' Sheets  
\*\*Also Available in 5' x 10' Sheets  
~Also Available in 6' x 8' Sheets  
\*\*\*Also Available in 6' x 10' Sheets  
L.W.O. = Long Way Opening Inside to Inside.  
S.W.O. = Short Way Opening Inside to Inside.  
# = Approximate Gauge.  
Stainless and Aluminum Sizes Upon Request.

# STAINLESS FLAT and STANDARD EXPANDED METAL



4' x 8'

Size	L.W.O.	S.W.O.	Weight
1/2 X #13 FLAT ..	0.915...	0.240...	56.96
3/4 X #9 STD ....	1.562...	0.687...	65.60
3/4 X #9 FLAT ...	1.687...	0.562...	62.40
1-1/2 X #9 STD ..	2.500...	1.125...	43.84

L.W.O. = Long Way Opening Inside to Inside.  
S.W.O. = Short Way Opening Inside to Inside.  
# = Approximate Gauge.

# ALUMINUM FLAT and STANDARD EXPANDED METAL



4' x 8'

Size	L.W.O.	S.W.O.	Weight
3/4 X #9 STD ....	1.680...	0.687...	20.80
3/4 X #9 FLAT ...	1.750...	0.625...	19.84

L.W.O. = Long Way Opening Inside to Inside.  
S.W.O. = Short Way Opening Inside to Inside.  
# = Approximate Gauge.

# WALKWAY GRATING

4' x 8', 4' x 10'

Size	Thickness	L.W.O.	S.W.O.	Weight 4' x 8'	Weight 4' x 10'
3.0# . .	0.183	3.44	0.940	96.00	
3.14# . .	0.250	4.88	1.625	100.48	
4.0# . .	0.215	3.44	0.940	128.00	160.00
4.27# . .	0.250	2.88	1.000	136.64	
5.0# . .	0.250	3.38	0.813	160.00	200.00
6.25# . .	0.312	3.38	0.813	200.00	

# CATWALK GRATING

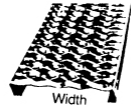
10' x 2', 10' x 6'

Size	Thickness	L.W.O.	S.W.O.	Weight 10' x 2'	Weight 10' x 6'
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3.0#... 187 .. 3.44... 0.940 .. 59.99.... 179.97

## DECK SPAN - 12'

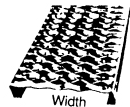
GALVANIZED



Width	Height	Gage	Wt./Length
4.75 . . .	1.5" . . . .	12 . . . .	38.4
4.75 . . .	1.5" . . . .	14 . . . .	27.6
4.75 . . .	2.0" . . . .	12 . . . .	39.6
7 . . . .	1.5" . . . .	12 . . . .	49.2
7 . . . .	1.5" . . . .	14 . . . .	36.0
7 . . . .	2.0" . . . .	12 . . . .	54.0
7 . . . .	2.0" . . . .	14 . . . .	38.4
9.5 . . .	1.5" . . . .	12 . . . .	60.0
9.5 . . .	1.5" . . . .	14 . . . .	43.2
9.5 . . .	2.0" . . . .	12 . . . .	64.8
9.5 . . .	2.0" . . . .	14 . . . .	45.6
11.75 . .	1.5" . . . .	12 . . . .	70.8
11.75 . .	1.5" . . . .	14 . . . .	50.4
11.75 . .	2.0" . . . .	12 . . . .	74.4
11.75 . .	2.0" . . . .	14 . . . .	52.8
18.75 . .	1.5" . . . .	12 . . . .	102.0
18.75 . .	2.0" . . . .	12 . . . .	106.8
18.75 . .	2.0" . . . .	14 . . . .	75.6
24 . . . .	2.0" . . . .	12 . . . .	129.6
24 . . . .	2.0" . . . .	14 . . . .	88.8

## DECK SPAN - 12'

ALUMINUM



Width	Height	Gage	Wt./Length
7 . . . .	2.0" . . . .	14 . . . .	1.15
9.5 . . .	2.0" . . . .	14 . . . .	1.38
11.75 . .	2.0" . . . .	14 . . . .	2.18
18.75 . .	2.0" . . . .	14 . . . .	4.88

# OPEN STEEL FLOOR GRATING BAR GRATE

2' x 20' + 3' x 20'

WEIGHT IN LBS. PER SQ. FT.

Bearing Bars	Type	
	19-W-4	
1 x 1/8	5.15*	Note: We can also order 19-W-2, 15-W-4, and 15-W-2 upon request.
1 x 3/16	7.35*	
1-1/4 x 3/16	8.70*	
1-1/2 x 3/16	10.94*	
* SMOOTH & PAINTED BLACK		

# OPEN STEEL FLOOR GRATING

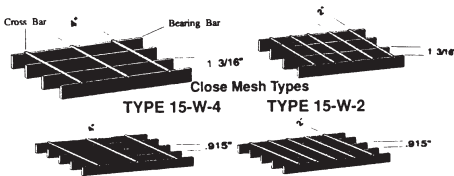
Conforms to Specifications  
RR-G661a and MIL-G-1958



Grating Available in Carbon Steel,  
Aluminum and Stainless

### Standard Mesh Types

TYPE 19-W-4      TYPE 19-W-2



**When Ordering GRATING, Specify:**  
**Type of GRATING**

**Size of BEARING BARS (DEPTH & WIDTH)**

**Span (Direction of Bearing Bars)**

**Dimensions of Area**

**Painted or Galvanized, Smooth or Serrated.**

(Rods run the width, flat bars run the length)



# Stainless

PAGE



## **Angles** . . . . . 98

ASTM A276 Type 304

**Sizes ranging from:**

3/4" x 3/4" x 1/8" to 4" x 4" x 3/8"



## **Squares** . . . . . 98

ASTM A276 Type 304

**Sizes ranging from:**

1/4" to 1-1/2"



## **Flats** . . . . . 99-100

ASTM A240 Type 304

**Sizes ranging from:**

1/8" x 1/2" to 1" x 2"



## **Rounds** . . . . . 101

ASTM A276 Type 304 & Type 303

**Sizes ranging from:**

1/8" x 3"



## **Sheets** . . . . . 102

ASTM A240 Type 304 No. 2B Finish



## **Plate** . . . . . 103

ASTM A480 - Type 304 No 1 Finish

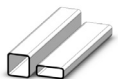


## **Floor Plate** . . . . . 103

ASTM A793 - Type 304 - Pattern B

**Sizes ranging from:**

1/8" to 1/4", 48" to 60"



## **Square & Rectangular Tubing** . . . . . 104

ASTM A554 - Type 304

**Sizes ranging from:**

3/4" x 3/4" x 16ga to 8" x 2"x3/16"



## **Pipe** . . . . . 105

ASTM A312 - Sch 40 & Sch 80 - Type 304

**Sizes ranging from:**

1/8" to 4"

# H.R.A.P. STAINLESS TYPE 304

## ANGLES - Bar Size

20' Random Length

Conforms to ASTM A276, A479



Size in Inches	Wt. Per Foot Lbs.	Estimate 20' Bar
3/4 x 3/4 x 1/8	0.59 . . . . .	11.80
1 x 1 x 1/8	0.80 . . . . .	16.00
3/16	1.16 . . . . .	23.20
1/4	1.49 . . . . .	29.80
1-1/4 x 1-1/4 x 1/8	1.01 . . . . .	20.20
3/16	1.48 . . . . .	29.60
1/4	1.92 . . . . .	38.40
1-1/2 x 1-1/2 x 1/8	1.23 . . . . .	24.60
3/16	1.80 . . . . .	36.00
1/4	2.34 . . . . .	46.80
2 x 2 x 1/8	1.65 . . . . .	33.00
3/16	2.44 . . . . .	48.80
1/4	3.19 . . . . .	63.80
2-1/2 x 2-1/2 x 3/16	3.07 . . . . .	61.40
1/4	4.10 . . . . .	82.00
3 x 2 x 1/4	4.22 . . . . .	84.46
3 x 3 x 3/16	3.79 . . . . .	75.80
1/4	4.90 . . . . .	98.00
3/8	7.20 . . . . .	144.00
4 x 4 x 1/4	6.60 . . . . .	132.00
3/8	9.80 . . . . .	196.00

Larger Sizes and Other Grades Are Available  
Formed Stainless Angles and Channels  
Made To Order

# STAINLESS STEEL SQUARES

## TYPE 304

12' Random Length



Size in Inches	Weight Per Ft. in lbs.	Weight of 12' Bar
1/4 . . . . .	0.21 . . . . .	2.56
5/16 . . . . .	0.33 . . . . .	3.97
3/8 . . . . .	0.48 . . . . .	5.74
1/2 . . . . .	0.85 . . . . .	10.20
5/8 . . . . .	1.33 . . . . .	15.96
3/4 . . . . .	1.91 . . . . .	22.92
1 . . . . .	3.40 . . . . .	40.80
1-1/4 . . . . .	5.31 . . . . .	63.72
1-1/2 . . . . .	7.65 . . . . .	91.80

# STAINLESS STEEL FLATS H.R.A.P. TYPE 304 - 12' Random Length



Size in Inches	Wt. Per Foot Lbs.	Estimated 12' Wt.
<b><u>1/8 x</u></b>		
1/2 . . . . .	0.213 . . . . .	2.56
3/4 . . . . .	0.319 . . . . .	3.83
1 . . . . .	0.425 . . . . .	5.10
1-1/4 . . . . .	0.531 . . . . .	6.37
1-1/2 . . . . .	0.638 . . . . .	7.66
2 . . . . .	0.850 . . . . .	10.20
2-1/2 . . . . .	1.063 . . . . .	12.78
3 . . . . .	1.280 . . . . .	15.36
4 . . . . .	1.700 . . . . .	20.40
<b><u>3/16 x</u></b>		
1/2 . . . . .	0.319 . . . . .	3.83
3/4 . . . . .	0.478 . . . . .	5.74
1 . . . . .	0.638 . . . . .	7.66
1-1/4 . . . . .	0.797 . . . . .	9.56
1-1/2 . . . . .	0.956 . . . . .	11.47
2 . . . . .	1.275 . . . . .	15.30
2-1/2 . . . . .	1.594 . . . . .	19.13
3 . . . . .	1.913 . . . . .	22.96
4 . . . . .	2.560 . . . . .	30.72
<b><u>1/4 x</u></b>		
1/2 . . . . .	0.425 . . . . .	5.10
3/4 . . . . .	0.638 . . . . .	7.66
1 . . . . .	0.850 . . . . .	10.20
1-1/4 . . . . .	1.063 . . . . .	12.76
1-1/2 . . . . .	1.275 . . . . .	15.30
1-3/4 . . . . .	1.492 . . . . .	17.90
2 . . . . .	1.700 . . . . .	20.40
2-1/2 . . . . .	2.125 . . . . .	25.50
3 . . . . .	2.550 . . . . .	30.60
4 . . . . .	3.400 . . . . .	40.80
5 . . . . .	4.250 . . . . .	51.00
6 . . . . .	5.100 . . . . .	61.20
8 . . . . .	6.800 . . . . .	81.60
<b><u>3/8 x</u></b>		
3/4 . . . . .	0.958 . . . . .	11.49
1 . . . . .	1.276 . . . . .	15.30
1-1/4 . . . . .	1.594 . . . . .	19.12
1-1/2 . . . . .	1.913 . . . . .	22.95
2 . . . . .	2.550 . . . . .	30.60
2-1/2 . . . . .	3.188 . . . . .	38.26
3 . . . . .	3.826 . . . . .	45.90
3-1/2 . . . . .	4.467 . . . . .	53.60
4 . . . . .	5.100 . . . . .	61.20
5 . . . . .	6.380 . . . . .	76.56
6 . . . . .	7.657 . . . . .	91.89
8 . . . . .	10.200 . . . . .	122.40

# STAINLESS STEEL FLATS H.R.A.P. TYPE 304 - 12' Random Length (cont.)



Size in Inches	Wt. Per Foot Lbs.	Estimated 12' Wt.
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**1/2 x**

3/4 . . . . .	1.276 . . . . .	15.30
1 . . . . .	1.700 . . . . .	20.40
1-1/4 . . . . .	2.125 . . . . .	25.50
1-1/2 . . . . .	2.550 . . . . .	30.60
2 . . . . .	3.400 . . . . .	40.80
2-1/2 . . . . .	4.250 . . . . .	51.00
3 . . . . .	5.100 . . . . .	61.20
4 . . . . .	6.800 . . . . .	81.60
5 . . . . .	8.500 . . . . .	102.00
6 . . . . .	10.220 . . . . .	122.60
8 . . . . .	13.600 . . . . .	163.20

**5/8 x**

1 . . . . .	2.130 . . . . .	25.56
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**3/4 x**

1 . . . . .	2.550 . . . . .	30.60
1-1/2 . . . . .	3.826 . . . . .	45.90
2 . . . . .	5.100 . . . . .	61.20

**1 x**

2 . . . . .	6.800 . . . . .	81.60
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**Other Sizes Upon Request**

## STAINLESS STEEL ROUNDS

### TYPE 304

12' Random Length



Size in Inches	Weight Per Ft. in Lbs.	Weight of 12' Bar
1/8 . . . . .	0.042 . . . . .	0.504
3/16 . . . . .	0.094 . . . . .	1.123
1/4 . . . . .	0.167 . . . . .	2.001
5/16 . . . . .	0.260 . . . . .	3.125
3/8 . . . . .	0.376 . . . . .	4.507
7/16 . . . . .	0.511 . . . . .	6.134
1/2 . . . . .	0.668 . . . . .	8.021
9/16 . . . . .	0.845 . . . . .	10.138
5/8 . . . . .	1.040 . . . . .	12.485
11/16 . . . . .	1.260 . . . . .	15.120
3/4 . . . . .	1.500 . . . . .	18.000
7/8 . . . . .	2.040 . . . . .	24.480
15/16 . . . . .	2.350 . . . . .	28.200
1 . . . . .	2.670 . . . . .	32.040
1-1/8 . . . . .	3.380 . . . . .	40.565
1-3/16 . . . . .	3.770 . . . . .	45.245
1-1/4 . . . . .	4.170 . . . . .	50.040
1-3/8 . . . . .	5.050 . . . . .	60.596
1-7/16 . . . . .	5.584 . . . . .	67.003
1-1/2 . . . . .	6.010 . . . . .	72.115
1-5/8 . . . . .	7.050 . . . . .	84.600
1-3/4 . . . . .	8.180 . . . . .	98.165
2 . . . . .	10.680 . . . . .	128.160
2-1/4 . . . . .	13.520 . . . . .	162.245
2-1/2 . . . . .	16.690 . . . . .	200.275
3 . . . . .	24.000 . . . . .	288.000

## STAINLESS STEEL ROUNDS

### TYPE 303

12' Random Length



Size in Inches	Weight Per Ft. in Lbs.	Weight of 12' Bar
1/2 . . . . .	0.668 . . . . .	8.021
1 . . . . .	2.670 . . . . .	32.040

# TYPE 304 STAINLESS STEEL SHEET

No. 2B Finish - Cold Rolled,  
Annealed - Standard Flat Sheet Sizes  
QQ-S-766 ASTM A-240



Size in Inches	Lbs. Per Sq. Foot	Estimated Wt. Per Sheet
<b>7 Ga.</b>		
48 x 96 . . . . .	7.87 . . . . .	251.87
48 x 120 . . . . .	7.87 . . . . .	314.84
60 x 96 . . . . .	7.87 . . . . .	314.84
60 x 120 . . . . .	7.87 . . . . .	393.55
<b>10 Ga. (.135)</b>		
48 x 96 . . . . .	5.67 . . . . .	181.46
48 x 120 . . . . .	5.67 . . . . .	226.83
60 x 96 . . . . .	5.67 . . . . .	226.83
60 x 120 . . . . .	5.67 . . . . .	283.54
<b>11 Ga. (.120)</b>		
48 x 96 . . . . .	5.04 . . . . .	161.28
48 x 120 . . . . .	5.04 . . . . .	201.60
60 x 120 . . . . .	5.04 . . . . .	252.00
<b>12 Ga. (.105)</b>		
48 x 96 . . . . .	4.41 . . . . .	141.14
48 x 120 . . . . .	4.41 . . . . .	176.43
48 x 144 . . . . .	4.41 . . . . .	211.72
60 x 96 . . . . .	4.41 . . . . .	176.43
60 x 120 . . . . .	4.41 . . . . .	220.54
72 x 120 . . . . .	4.41 . . . . .	264.64
<b>14 Ga. (.075)</b>		
48 x 96 . . . . .	3.15 . . . . .	100.82
48 x 120 . . . . .	3.15 . . . . .	126.03
60 x 96 . . . . .	3.15 . . . . .	126.03
60 x 120 . . . . .	3.15 . . . . .	157.54
<b>16 Ga. (.060)</b>		
48 x 96 . . . . .	2.52 . . . . .	80.64
48 x 120 . . . . .	2.52 . . . . .	100.80
48 x 144 . . . . .	2.52 . . . . .	120.96
60 x 96 . . . . .	2.52 . . . . .	100.8
60 x 120 . . . . .	2.52 . . . . .	126.00
<b>18 Ga. (.048)</b>		
48 x 96 . . . . .	2.02 . . . . .	64.65
48 x 120 . . . . .	2.02 . . . . .	80.81
60 x 120 . . . . .	2.02 . . . . .	101.02
<b>20 Ga. (.036)</b>		
48 x 96 . . . . .	1.51 . . . . .	48.34
48 x 120 . . . . .	1.51 . . . . .	60.42

# STAINLESS STEEL PLATE

No. 1 Finish - Hot Rolled,  
Annealed and Pickled, A480



Size in Inches	Lbs. Per Sq. Foot	Estimated Wt. Per Sheet
<b>3/16 x</b>		
48 x 96 . . . . .	8.580 . . . . .	274.56
48 x 120 . . . . .	8.580 . . . . .	343.20
60 x 120 . . . . .	8.580 . . . . .	429.00
<b>1/4 x</b>		
48 x 96 . . . . .	11.161 . . . . .	357.17
48 x 120 . . . . .	11.161 . . . . .	446.46
60 x 120 . . . . .	11.161 . . . . .	558.05
<b>3/8 x</b>		
48 x 96 . . . . .	16.497 . . . . .	527.89
48 x 120 . . . . .	16.497 . . . . .	659.87
<b>1/2 x</b>		
48 x 96 . . . . .	21.660 . . . . .	693.12
48 x 120 . . . . .	21.660 . . . . .	866.40

**The Shearing Capacity of  
our 3/4" Plate Shear Decreases  
to 1/2" x 10' When Cutting  
Stainless Steel.**

# STAINLESS FLOOR PLATE 304

ASTM A793 PATTERN B

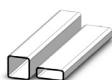


Size in Inches	Lbs. Per Sq. Foot	Estimated Wt. Per Sheet
<b>1/8</b>		
36 x 120 . . . . .	6.15 . . . . .	184.51
48 x 120 . . . . .	6.15 . . . . .	246.01
<b>3/16</b>		
48 X 96 . . . . .	8.698 . . . . .	278.32
48 X 120 . . . . .	. . . . .	347.90
60 x 120 . . . . .	8.698 . . . . .	434.88
<b>1/4</b>		
48 X 120 . . . . .	. . . . .	450.03

# STAINLESS TUBING

## 304 As Welded

20' Random



Size O.D.	Gauge Thickness	Wt. Per Foot
3/4 x 3/4 .....	16.....	0.61
3/4 x 3/4 .....	11.....	1.03
1 x 1 .....	16.....	0.83
1 x 1 .....	14.....	1.04
1 x 1 .....	11.....	1.44
1-1/4 x 1-1/4.....	16.....	1.05
1-1/4 x 1-1/4.....	14.....	1.37
1-1/4 x 1-1/4.....	11.....	1.84
1-1/2 x 1-1/2.....	16.....	1.27
1-1/2 x 1-1/2.....	14.....	1.60
1-1/2 x 1-1/2.....	11.....	2.25
1-1/2 x 1-1/2.....	3/16.....	3.64
2 x 1 .....	16.....	1.27
2 x 1 .....	11.....	2.25
2 x 1-1/2.....	11.....	2.66
2 x 2 .....	16.....	1.71
2 x 2 .....	14.....	2.02
2 x 2 .....	11.....	3.07
2 x 2 .....	3/16.....	4.46
2 x 2 .....	1/4.....	6.01
2-1/2 x 2-1/2.....	3/16.....	5.68
3 x 2 .....	11.....	3.89
3 x 2 .....	3/16.....	5.68
3 x 3 .....	11.....	4.70
3 x 3 .....	3/16.....	6.90
3 x 3 .....	1/4.....	9.06
3-1/2 x 3-1/2.....	3/16.....	8.06
4 x 2 .....	11.....	4.75
4 x 2 .....	3/16.....	6.90
4 x 2 .....	1/4.....	9.35
4 x 4 .....	11.....	6.26
4 x 4 .....	3/16.....	9.28
4 x 4 .....	1/4.....	12.68
6 x 2 .....	1/4.....	12.21
8 x 2 .....	3/16.....	11.90

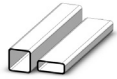


## STAINLESS STEEL PIPE

Sch. 40, Plain End

304

21' Random Lengths

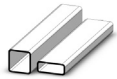


Size	OD	Wall	Wt./Ft.
1/8" . . . . .	0.405 . . . . .	0.068 . . . . .	0.24
1/4" . . . . .	0.540 . . . . .	0.088 . . . . .	0.43
3/8" . . . . .	0.675 . . . . .	0.091 . . . . .	0.57
1/2" . . . . .	0.840 . . . . .	0.109 . . . . .	0.86
3/4" . . . . .	1.050 . . . . .	0.113 . . . . .	1.14
1" . . . . .	1.315 . . . . .	0.133 . . . . .	1.69
1-1/4" . . . . .	1.660 . . . . .	0.140 . . . . .	2.29
1-1/2" . . . . .	1.900 . . . . .	0.145 . . . . .	2.74
2" . . . . .	2.375 . . . . .	0.154 . . . . .	3.69
2-1/2" . . . . .	2.875 . . . . .	0.203 . . . . .	5.81
3" . . . . .	3.500 . . . . .	0.216 . . . . .	7.60
3-1/2" . . . . .	4.000 . . . . .	.226 . . . . .	9.11
4 . . . . .	4.50 . . . . .	.237 . . . . .	14.98

## STAINLESS STEEL PIPE

Sch. 80 - 304

21' Random Lengths



Size	OD	Wall	Wt./Ft.
3/8" . . . . .	0.675 . . . . .	0.126 . . . . .	0.75
1/2" . . . . .	0.840 . . . . .	0.147 . . . . .	1.10
3/4" . . . . .	1.050 . . . . .	0.154 . . . . .	1.49
1" . . . . .	1.315 . . . . .	0.179 . . . . .	2.19
1-1/4" . . . . .	1.660 . . . . .	0.191 . . . . .	3.03



# Aluminum

PAGE



## Angles . . . . . 109

Structural Aluminum 6061 T6 and 6063 T52 Rounded Toes and Fillet

Sizes ranging from:

1/2" x 1/2" x 1/8" to 4" x 4" x 3/8"



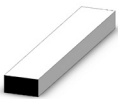
## Channels . . . . . 110

Structural Aluminum

- American Standard 6061-T6
- Associated 6061
- 6063-T52

Sizes ranging from:

3" to 10"



## Rectangles . . . . . 111

6061-T6511

Sizes ranging from:

1/8" x 1/2" to 3" x 4"



## Squares . . . . . 113

6061-T6511

Sizes ranging from:

3/8" to 3"



## Rounds . . . . . 114

6061-T6511

Sizes ranging from:

3/16" to 5"



## Sheet . . . . . 115

5052-H32

Sizes ranging from:

.032" to .250", 48" to 60" wide



## Plate . . . . . 116

6061-T651 Heat Treated & Aged Stress Relieved

Sizes ranging from:

.190" to .500", 48" wide



**Tread Brite Deck  
Plate** . . . . . 116  
3003

Sizes ranging from:  
.063" to .250", 48" to 60" wide



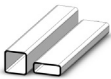
**Tread Plate Diamond  
Pattern** . . . . . 117  
6061-T6

Sizes ranging from:  
.125" to .250", 48" wide



**Pipe** . . . . . 118  
Sch 40 & Sch 80 – 6061-T6

Sizes ranging from:  
1/2" to 5"



**Square &  
Rectangular  
Tubing** . . . . . 118  
6063-T52

Sizes ranging from:  
3/4" x 3/4" x .062" to 6" x 2" x .125"

## Alloys

**3003-H14** - General purpose alloy of moderate strength. Easily formed, welded, or brazed. Not heat treatable. Bendable – bright finish.

**5052-H32** - This is the highest strength alloy of the more common non-heat treatable grades. Good resistance to marine atmosphere and saltwater corrosion. Excellent workability.

**6061-T6** - A heat treatable grade used in a wide variety of products from truck frames to screw machine products and structural components. A liberal bending radius is required when forming. Non-Bendable-dull finish.

# ANGLES - STRUCTURAL ALUMINUM

## 6061 T6 and 6063 T52

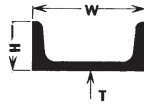
Rounded Toes and Fillet



Size in Inches	Weight Per Foot Lbs.	Estimate 25' Bar
1/2 x 1/2 x 1/8 6063 16'	0.128 . . .	3.20
3/4 x 3/4 x 1/8 . . .	0.202 . . .	5.05
1 x 1 x 1/8 . . . .	0.275 . . .	6.88
1 x 1 x 3/16 . . . .	0.400 . . .	10.00
1 x 1 x 1/4 . . . .	0.514 . . .	12.85
1-1/4 x 1-1/4 x 1/8	0.343 . . .	8.58
1-1/4 x 1-1/4 x 3/16	0.510 . . .	12.75
1-1/4 x 1-1/4 x 1/4	0.656 . . .	16.40
1-1/2 x 1-1/2 x 1/8	0.424 . . .	10.60
1-1/2 x 1-1/2 x 3/16	0.619 . . .	15.48
1-1/2 x 1-1/2 x 1/4	0.809 . . .	20.23
1-3/4 x 1-3/4 x 1/4	0.956 . . .	23.90
2 x 2 x 1/8 . . . .	0.577 . . .	14.43
2 x 2 x 3/16 . . . .	0.850 . . .	21.25
2 x 2 x 1/4 . . . .	1.110 . . .	27.75
2 x 2 x 3/8 . . . .	1.610 . . .	40.25
2-1/2 x 2-1/2 x 3/16	1.070 . . .	26.75
2-1/2 x 2-1/2 x 1/4	1.400 . . .	35.00
3 x 2 x 3/16 . . . .	1.070 . . .	26.75
3 x 2 x 1/4 . . . .	1.404 . . .	35.10
3 x 3 x 1/4 . . . .	1.680 . . .	42.00
3 x 3 x 3/8 . . . .	2.470 . . .	61.75
3 x 3 x 1/2 . . . .	3.227 . . .	80.65
4 x 3 x 1/4 . . . .	1.990 . . .	49.75
4 x 3 x 3/8 . . . .	2.926 . . .	73.15
4 x 4 x 1/4 . . . .	2.280 . . .	57.00
4 x 4 x 3/8 . . . .	3.369 . . .	84.25

**CHANNELS  
STRUCTURAL  
ALUMINUM  
American Standard  
6061 -T6**

Conforms to ASTM B308

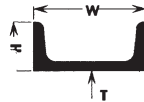


Web Width (W)	Height (H)	Web Thickness (T)	Wt./ Linear Foot	Wt. Per 25' Length
3	1.410	.170	1.42	35.49
4	1.647	.247	2.16	54.00
5	1.750	.190	2.32	57.90
5	1.885	.325	3.11	77.70
6	1.920	.200	2.83	70.74
8	2.290	.250	4.36	109.05
10	2.886	.526	8.64	216.00

**6061 Associated**

5	2.750	.190	3.09	77.25
7	3.50	.210	4.72	118.00

**CHANNELS  
STRUCTURAL  
ALUMINUM 6063-T52**

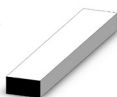


Web Width (W)	Height (H)	Web Thickness (T)	Wt./ Linear Foot	Wt. Per 16' Length
1	1/2	1/8	.258	4.13
1-1/2	1	1/8	.478	7.65
2	1	1/8	.563	9.01

# ALUMINUM RECTANGLES

## 6061-T6511

Lengths 12', except as noted



Size in Inches	Weight / Foot Lbs.	Weight 12' Length
<b>1/8 x</b>		
1/2 .....	0.074 .....	0.89
3/4 .....	0.110 .....	1.32
1 .....	0.148 .....	1.77
1-1/4 .....	0.184 .....	2.20
1-1/2 .....	0.221 .....	2.65
2 .....	0.294 .....	3.53
3 (5052 H32) 10'	0.441 .....	4.41
4 (5052 H32) 10'	0.590 .....	5.90
<b>3/16 x</b>		
1/2 .....	0.110 .....	1.32
3/4 .....	0.166 .....	1.99
1 .....	0.221 .....	2.65
1-1/4 .....	0.276 .....	3.31
1-1/2 .....	0.331 .....	3.97
2 .....	0.442 .....	5.30
2-1/2 .....	0.552 .....	6.62
3 .....	0.662 .....	7.95
4 (5052 H32) 10'	0.884 .....	8.84
6 .....	1.333 .....	16.00
<b>1/4 x</b>		
1/2 .....	0.148 .....	1.77
3/4 .....	0.221 .....	2.65
1 .....	0.294 .....	3.53
1-1/4 .....	0.368 .....	4.42
1-1/2 .....	0.442 .....	5.30
1-3/4 .....	0.516 .....	6.18
2 .....	0.589 .....	7.07
2-1/2 .....	0.736 .....	8.83
3 .....	0.883 .....	10.60
3-1/2 .....	1.010 .....	12.12
4 .....	1.175 .....	14.10
5 .....	1.500 .....	18.00
6 .....	1.800 .....	21.60
8 .....	2.400 .....	28.80
12 .....	3.600 .....	43.20
<b>5/16 x</b>		
2 .....	0.749 .....	8.98
<b>3/8 x</b>		
1/2 .....	0.221 .....	2.65
3/4 .....	0.331 .....	3.97
1 .....	0.442 .....	5.30
1-1/4 .....	0.552 .....	6.62
1-1/2 .....	0.662 .....	7.95
2 .....	0.883 .....	10.60
2-1/2 .....	1.100 .....	13.20
3 .....	1.325 .....	15.90
3-1/2 .....	1.542 .....	18.50
4 .....	1.766 .....	21.20
5 .....	2.250 .....	27.00
6 .....	2.640 .....	31.68
8 .....	3.520 .....	42.24
10 .....	4.500 .....	54.00

# ALUMINUM RECTANGLES - 12'



## 6061 (cont.)

Size in Inches	Weight / Foot Lbs.	Weight 12' Length
----------------	--------------------	-------------------

### 1/2 x

3/4 .....	0.442 .....	5.30
1 .....	0.589 .....	7.07
1-1/4 .....	0.736 .....	8.83
1-1/2 .....	0.883 .....	10.60
2 .....	1.175 .....	14.10
2-1/2 .....	1.475 .....	17.70
3 .....	1.766 .....	21.20
3-1/2 .....	2.058 .....	24.70
4 .....	2.350 .....	28.20
5 .....	2.940 .....	35.28
6 .....	3.520 .....	42.24
8 .....	4.700 .....	56.40
10 .....	5.800 .....	70.56

### 5/8 x

1 .....	0.734 .....	8.81
1-1/2 .....	1.125 .....	13.50
2 .....	1.470 .....	17.64
3 .....	2.203 .....	26.44
4 .....	2.940 .....	35.28
6 .....	4.410 .....	52.92

### 3/4 x

1 .....	0.883 .....	10.60
1-1/4 .....	1.100 .....	13.20
1-1/2 .....	1.325 .....	15.90
2 .....	1.766 .....	21.20
2-1/2 .....	2.208 .....	26.50
3 .....	2.650 .....	31.80
4 .....	3.533 .....	42.40
6 .....	5.300 .....	63.60
8 .....	7.050 .....	84.60

### 1 x

1-1/4 .....	1.475 .....	17.70
1-1/2 .....	1.766 .....	21.20
2 .....	2.350 .....	28.20
2-1/2 .....	2.941 .....	35.30
3 .....	3.533 .....	42.39
4 .....	4.709 .....	56.50
6 .....	7.067 .....	84.80
8 .....	9.400 .....	112.80
10 .....	11.760 .....	141.16
12 .....	14.110 .....	169.34

### 1-1/4 x

2 .....	3.000 .....	36.00
3 .....	4.410 .....	52.92
4 .....	5.880 .....	70.56
8 .....	11.760 .....	141.12



# ALUMINUM RECTANGLES - 12'

## 6061 (cont.)



Size in Inches	Weight / Foot Lbs.	Weight 12' Length
<b>1-1/2 x</b>		
2.....	3.533 .....	42.39
2-1/2 .....	4.409 .....	52.90
3.....	5.290 .....	63.48
4.....	7.050 .....	84.60
5.....	8.818 .....	105.81
6.....	10.580 .....	126.98
<b>2 x</b>		
4.....	9.583 .....	115.00
<b>3 x</b>		
4.....	14.420 .....	173.00

# ALUMINUM SQUARE Extruded



Size	Type	Wt./Ft.	Wt./12'
3/8. . .	6063-T-6511 . .	0.167 . .	. . . 2.00
1/2. . .	6061-T-6511 . .	0.293 . .	. . . 3.51
3/4. . .	6061-T-6511 . .	0.661 . .	. . . 7.92
1 . . .	6061-T-6511 . .	1.166 . .	. . 14.00
1-1/4 . .	6061-T-6511 . .	1.838 . .	. . 22.00
1-1/2 . .	6061-T-6511 . .	2.641 . .	. . 31.70
1-3/4 . .	6061-T-6511 . .	3.600 . .	. . 43.20
2 . . .	6061-T-6511 . .	4.700 . .	. . 56.40
3" . . .	6061-T-6511 . .	10.569 . .	....126.84

# ALUMINUM ROUNDS

## 6061-T6511

Specifications: QQ-A-225/8, QQ-A-200/8



Size in Inches	Weight / FT Lbs.	12" Length
3/16 . . . . .	0.033 . . . . .	0.396
1/4 . . . . .	0.058 . . . . .	0.694
5/16 . . . . .	0.090 . . . . .	1.080
3/8 . . . . .	0.130 . . . . .	1.560
1/2 . . . . .	0.230 . . . . .	2.765
5/8 . . . . .	0.361 . . . . .	4.334
3/4 . . . . .	0.520 . . . . .	6.235
7/8 . . . . .	0.708 . . . . .	8.496
1 . . . . .	0.925 . . . . .	11.102
1-1/8 . . . . .	1.166 . . . . .	13.997
1-1/4 . . . . .	1.450 . . . . .	17.395
1-1/2 . . . . .	2.083 . . . . .	24.998
1-3/4 . . . . .	2.940 . . . . .	35.280
2 . . . . .	3.667 . . . . .	44.006
2-1/2 . . . . .	5.776 . . . . .	69.307
3 . . . . .	8.500 . . . . .	101.995
4 . . . . .	14.750 . . . . .	177.005
5 . . . . .	23.530 . . . . .	282.360

# ALUMINUM RECTANGLES –

10' 3003



Size in Inches	Weight / Foot Lbs.	Weight 10' Length
1/8 x 3 . . . . .	0.534 . . . . .	5.34
3/16 x 4 . . . . .	0.884 . . . . .	8.84

# ALUMINUM SHEET

## 5052-H32

(3003 or 6061 where indicated)



Thickness Inches	Width & Length	Estimated Wt. Lbs. / Sheet
<b>.032 (.456 lb. per sq. ft.)</b>		
Approx. 21 Ga.	48 x 96 . . . . .	14.6
	48 x 120 . . . . .	18.2
<b>.040 (.570 lb. per sq. ft.)</b>		
Approx. 19 Ga.	48 x 96 . . . . .	18.2
	48 x 120 . . . . .	22.8
<b>.050 (.713 lb. per sq. ft.)</b>		
Approx. 18 Ga.	48 x 96 . . . . .	22.8
	48 x 120 . . . . .	28.5
<b>.063 (.898 lb. per sq. ft.)</b>		
Approx. 16 Ga.	36 x 120 . . . . .	26.9
	48 x 96 . . . . .	28.7
	48 x 96 (3003) . . . . .	28.7
	48 x 120 . . . . .	35.9
	60 x 120 . . . . .	44.9
<b>.080 (1.14 lb. per sq. ft.)</b>		
Approx. 14 Ga.	48 x 96 . . . . .	36.5
	48 x 120 . . . . .	46.6
	60 x 120 . . . . .	55.9
<b>.090 (1.28 lb. per sq. ft.)</b>		
Approx. 13 Ga.	48 x 96 . . . . .	40.9
	48 x 120 . . . . .	51.2
	48 x 144 . . . . .	60.5
	60 x 120 . . . . .	60.5
<b>.100 (1.43 lb. per sq. ft.)</b>		
Approx. 12 Ga.	48 x 96 . . . . .	45.7
	48 x 120 . . . . .	57.2
	72 x 96 . . . . .	68.6
<b>.125 (1.78 lb. per sq. ft.)</b>		
Approx. 11 Ga.	48 x 96 . . . . .	55.9
	48 x 120 . . . . .	69.8
	48 x 144 (6061-T6) . . . . .	83.8
	60 x 96 . . . . .	69.8
	60 x 120 . . . . .	87.3
	60 x 144 . . . . .	104.7
	72 x 96 . . . . .	83.8
72 x 144 . . . . .	125.7	
<b>.190 (2.70 lb. per sq. ft.)</b>		
Approx. 7Ga or 3/16"	48 x 96 . . . . .	86.40
	48 x 120 . . . . .	108.0
	48 x 144 . . . . .	124.8
	60 x 120 . . . . .	135.0
	60 x 144 . . . . .	162.0
<b>.250 (3.53 lb. per sq. ft.)</b>		
Approx. 7Ga or 3/16"	48 x 96 . . . . .	111.7
	48 x 120 . . . . .	141.2
	48 x 144 . . . . .	169.4
	60 x 96 . . . . .	141.2
60 x 120 . . . . .	176.5	

# 6061-T651 ALUMINUM PLATE

## Heat Treated & Aged, Stress-Relieved

Specifications: QQ-A-250/11, AMS 4027

Thickness Inches	Width & Length	Estimated Wt. Lbs. Per Sheet
<b>.190 (2.70 lb. per sq. ft.)</b>		
	48 x 144 . . . . .	129.6
<b>.250 (3.53 lb. per sq. ft.)</b>		
	48.5 x 144.5 . . . . .	171.8
<b>.375 (5.29 lb. per sq. ft.)</b>		
	48 x 144 . . . . .	254.0
<b>.500 (7.06 lb. per sq. ft.)</b>		
	48.5 x 144.5 . . . . .	343.6

# 3003 ALUMINUM TREAD BRITE™ DECK PLATE



Conforms to ASTM B209

Thickness Inches	Width & Length	Estimated Wt. Lbs. Per Sheet
<b>0.063 (1.008 Lb. per sq. ft.)</b>		
	48 x 120 . . . . .	40.32
<b>.100 (1.57 lb. per sq. ft.)</b>		
	48 x 96 . . . . .	50.3
	48 x 192 . . . . .	100.5
	60 x 96 . . . . .	62.8
	60 x 192 . . . . .	125.7
<b>.125 (1.92 lb. per sq. ft.)</b>		
	36 x 108 . . . . .	51.3
	48 x 96 . . . . .	60.8
	48 x 120 . . . . .	76.0
	48 x 192 . . . . .	122.9
	60 x 96 . . . . .	76.8
	60 x 120 . . . . .	95.0
	60 x 192 . . . . .	153.7
<b>.188 (2.82 lb. per sq. ft.)</b>		
	48 x 96 . . . . .	90.3
	48 X 120 . . . . .	112.84
	48 x 192 . . . . .	180.5
	60 x 96 . . . . .	112.8
	60 x 120 . . . . .	141.0
	60 x 192 . . . . .	225.7
<b>.25 (3.671 lb. per sq. ft.)</b>		
	48 x 96 . . . . .	117.46
	48 x 192 . . . . .	234.92
	60 x 96 . . . . .	146.82
	60 x 120 . . . . .	183.53
	60 x 144 . . . . .	220.23
	60 x 192 . . . . .	293.65

# 6061-T6 TREAD PLATE

## Diamond Pattern

Specification: MIL-F-17132

Conforms to ASTM B632



Thickness Inches	Width & Length	Estimated Wt. Lbs. Per Sheet
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**.125 (1.92 lb. per sq. ft.)**

**48 x 96 . . . . . 64.0**

**48 x 192 . . . . . 128.0**

**.188 (2.82 lb. per sq. ft.)**

**48 x 96 . . . . . 90.2**

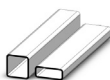
**48 x 192 . . . . . 180.5**

**.250 (3.672 lb. per sq. ft.)**

**48 x 96 . . . . . 117.5**

**48 x 192 . . . . . 235.0**

# ALUMINUM TUBING STRUCTURAL - 6063-T52



Extruded 21'1" Lengths

Size	Wall Thickness	Pounds Per Foot	Pounds Per 21'1"
3/4 x 3/4 x .062 . . . . .		0.198 . . . . .	4.18
3/4 x 3/4 x .125 . . . . .		0.376 . . . . .	7.92
1 x 1 x .062 . . . . .		0.281 . . . . .	5.92
1 x 1 x .067 RND CNR		0.283 . . . . .	6.79
1 x 1 x .125 . . . . .		0.527 . . . . .	11.11
1 x 1 x .125 RND CNR		0.527 . . . . .	11.11
1-1/4 x 1-1/4 x .125		0.674 . . . . .	14.22
1-1/2 x 1-1/2 x .125		0.827 . . . . .	17.43
2 x 1 x .125 . . . . .		0.827 . . . . .	17.43
2 x 1-1/2 x .125 . . . . .		0.956 . . . . .	20.15
2 x 2 x .125 . . . . .		1.130 . . . . .	23.83
2 x 2 x .125 RND CNR		1.130 . . . . .	23.83
2 x 2 x 3/16 . . . . .		1.637 . . . . .	34.50
2 x 2 x 1/4 . . . . .		2.058 . . . . .	43.39
2-1/2 x 2-1/2 x .125		1.423 . . . . .	30.00
3 x 1 x .125 . . . . .		1.103 . . . . .	23.25
3 x 2 x .125 . . . . .		1.399 . . . . .	29.50
3 x 3 x .125 . . . . .		1.691 . . . . .	53.36
3 x 3 x .187 . . . . .		2.531 . . . . .	53.36
3 x 3 x .250 . . . . .		3.296 . . . . .	69.50
4 x 2 x .125 . . . . .		1.690 . . . . .	35.62
4 x 4 x .125 . . . . .		2.330 . . . . .	49.13
4 x 4 x .250 . . . . .		4.501 . . . . .	94.90
5 x 2 x .125 . . . . .		1.984 . . . . .	41.83
6 x 2 x .125 . . . . .		2.277 . . . . .	48.02

# 6061T6 ALUMINUM PIPE SCHEDULE 40

20' LENGTHS



Size	OD	Wall	Wt./Ft.
1/2 . . . . .	0.840 . . . . .	0.109 . . . . .	0.293
3/4 . . . . .	1.050 . . . . .	0.113 . . . . .	0.391
1 . . . . .	1.315 . . . . .	0.133 . . . . .	0.581
1-1/4 . . . . .	1.660 . . . . .	0.140 . . . . .	0.785
1-1/2 . . . . .	1.900 . . . . .	0.145 . . . . .	0.939
2 . . . . .	2.375 . . . . .	0.154 . . . . .	1.264
2-1/2 . . . . .	2.875 . . . . .	0.203 . . . . .	2.000
3 . . . . .	3.500 . . . . .	0.216 . . . . .	2.621
4 . . . . .	4.50 . . . . .	.237 . . . . .	3.733
5 . . . . .	5.563 . . . . .	.258 . . . . .	5.057

# 6061 T6 ALUMINUM PIPE SCHEDULE 80

20' LENGTHS



Size	OD	Wall	Wt./Ft.
1 . . . . .	1.315 . . . . .	0.179 . . . . .	0.750
1-1/4 . . . . .	1.660 . . . . .	0.191 . . . . .	1.037
1-1/2 . . . . .	1.900 . . . . .	0.200 . . . . .	1.256

# Rebar & Miscellaneous

PAGE



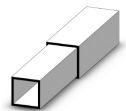
## Reinforcing Bars . 120

Conforms to ASTM A615

- Bending service available
- Available in metric Grades 300 & 420, Grade 40, 60, No Grade
- Weldable grades available upon request, A706
- Stock 20', 40', 60', and cut to size
- 2-1/2 to 3 ton bundles

### Available Sizes:

#3 to #10



## PTO Tubing and Shafting . . . . . 121

Square tubing – Sold by ID

Square shafting

Rectangular tubing – Sold by ID

Rectangular shafting

### Available Sizes:

3/4" to 1-1/2"



## Threaded Rod - National Coarse Threads –

**Grade 2 . . . . . 122**

Plain finish

Zinc plated

### Available Sizes:

1/4" to 1-1/4"



## Rail Cap – Hand Rail . . . . . 122

### Available Sizes:

1-3/4"



## Cutting Edge – Single Bevel Flat – 1055 Carbon . . . . . 123

### Available Sizes:

3/8" x 3" to 1" x 8"

# REINFORCING BARS

Bending Service Available

Available In:

Metric Grades 300 & 420,

Grade 40, 60, No Grade

Weldable grades available upon request,  
A706

Stock 20', 40', 60', and cut to size

2-1/2 to 3 Ton Bundles

Conforms to ASTM A615



Imperial Size	Metric Size mm	Diam Inches	Lbs / Ft.	20' piece Lbs
3	10	0.375	0.376	7.52
4	13	0.500	0.668	13.36
5	16	0.625	1.043	20.86
6	19	0.750	1.502	30.04
7	22	0.875	2.044	40.88
8	25	1.000	2.670	53.40
9	29	1.125	3.400	68.00
10	32	1.250	4.303	86.06

**Loop End Tie Wire 16 ga. 5000 pc./coils**  
**Lengths Available: 4-1/2", 5", 5-1/2", 6", 7", 8"**  
**Tying Tools For Loop End Tire Wire Available**

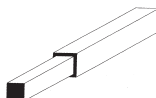


# P.T.O. TUBING & SHAFTING

Sold in 10 & 12 ft. Lengths

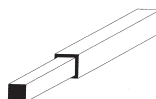
## SQUARE TUBING

Sold by ID



Telescopes Over (I.D.)	Wall Thickness	O.D. Size	Weight Per Ft.
3/4	1/8	1	1.25
7/8	1/8	1-1/8	1.57
15/16	1/8	1-3/16	1.60
1	3/16	1-3/8	2.60
1-3/16	5/32	1-1/2	2.70
1-1/4	3/16	1-5/8	3.30
1-1/2	3/16	1-7/8	3.80

## SQUARE SHAFTING



Size	Wt. Per Ft.
3/4	1.91
7/8	2.60
15/16	2.99
1	3.40
1-1/8	4.30
1-3/16	4.80
1-1/4	5.31
1-5/16	5.86

## RECTANGULAR TUBING

Sold by ID



Telescopes Over (I.D.)	Wall Thickness	O.D. Size	Weight Per Ft.
3/4 x 7/8	1/8	1 x 1-1/8	1.60
1 x 1-1/8	1/8	1-1/4 x 1-3/8	1.70

## RECTANGULAR SHAFTING



Size	Wt. Per Ft.
3/4 x 7/8	2.23
1 x 1-1/8	3.83

## THREADED ROD

NATIONAL COARSE THREADS - Grade 2  
Stock Lengths - 12' Plain Finish



Size	Threads/Inch	Wt. Per Ft.
1/4 .....	20.....	0.125
5/16.....	18.....	0.200
3/8.....	16.....	0.290
7/16.....	14.....	0.400
1/2.....	13.....	0.530
5/8.....	11.....	0.840
3/4.....	10.....	1.233
7/8.....	9.....	1.700
1.....	8.....	2.229
1-1/4.....	7.....	3.500

## THREADED ROD

NATIONAL COARSE THREADS - Grade 2  
Zinc Plated - 12' Stock Lengths



Size	Threads/Inch	Wt. Per Ft.
3/8.....	16.....	0.290
1/2.....	13.....	0.530
5/8.....	11.....	0.840
3/4.....	10.....	1.233
1.....	8.....	2.300

## RAIL CAP HAND RAIL - 20'

Hot Rolled Mild Steel



Width in Inches	Weight Per Ft. in Lbs.	Weight Per Stock Length
1-3/4.....	1.27.....	25.4

# CUTTING EDGE STEEL

SINGLE BEVEL FLAT  
1055 CARBON



Cutter  
Blades

Size in Inches	Weight Per Ft. in Lbs.	Stock Length Ft./In.
-------------------	---------------------------	-------------------------

## 3/8 x

3 ..... 3.35 ..... 20'6"

## 1/2 x

3 ..... 4.40 ..... 20'6"

4 ..... 6.05 ..... 20'6"

6 ..... 9.45 ..... 20'6", 41'

## 5/8 x

6 ..... 11.55 ..... 20'6", 41'

## 3/4 x

4 ..... 8.48 ..... 21'6"

6 ..... 13.60 ..... 20'6", 41'

8 ..... 18.41 ..... 20'6", 41'

## 1 x

8 ..... 25.16 ..... 20'6", 41'



# Fabrication Services

If you have a fabrication need, we have a solution. Multiple pieces of fabrication equipment combined with an expansive inventory make us your preferred source when looking for a fabrication solution. The broad scope of inventory, coil processing capacity, fabrication equipment and delivery options make us one of the largest steel suppliers and fabricators in the Midwest.

## Service: Flat Laser Cutting

### Capabilities

- McNeilus Steel operates multiple sheet and plate cutting lasers.

### Capacities

- 10,000 watt capacity
- Table size range - 5' x 10' to 14' x 55'
- Thickness capability – 24ga to 1"

## Service: Tube/Structural Laser

### Capabilities

- Our processing capabilities include square, round, and rectangular tube, pipe, beams, channel, and angle. The 3-D lasers automatically load, feed, laser cut, tap laser cut holes, and unload parts.

### Capacities

- 4500 watt capacity
- 24" OD max for round tube
- 15.75" OD max for square tube
- 8" OD max for structurals
- Material handling – 49' max length
- Thickness capability – up to .750"

## Service: Forming

### Capabilities

- Multiple presses to provide superior forming performance.

### Capacities

- 1100 ton max capacity
- 26' 8" max bend length
- CNC control with advanced gauging
- Multiple tooling options
- Integration with cutting and bending process.

## **Service: Rolling**

### **Capabilities**

- Whether it is cone segments, cylinders, cylinder segments, rings or round shapes, we can provide parts that fit every time.

### **Capacities**

- 3/4" A36 x 8' long
- 1/2" Gr80 x 8'long

## **Service: Plasma & Oxy Fuel Cutting**

### **Capabilities**

- Multiple plasma cutting systems provide large capacity capabilities for your hi-def plasma and oxy fuel requirements.

### **Capacities**

- 400 amp capacity
- Table size range – 10' x 25' to 20' x 48'
- Thickness capacity – up to 3"- plasma  
– 6" – oxy-fuel

## **Service: Machining (CNC)**

### **Capabilities**

- Machining capabilities allow for complete processing to your fabricated parts.

### **Capacities**

- Capacity – 4,000 lbs.
- Tools – 30 station automatic tool changer.
- Table Size – up to 50" x 26"

## **Service: Rebar Fabrication**

### **Capabilities**

- Full service rebar estimating for all your construction requirements. Shearing capacity for straight cuts and bending for all your formed bar requirements.

### **Capacities**

- Shearing capacity – #3-#11 rebar.
- Automated handling.
- Bending capacity – #3-#11 rebar (single or multiple bends).

## **Service: Band Sawing**

### **Capabilities**

- Production sawing capacity for structural and tubing products. Straight, mitre and compound mitre cutting capabilities to meet any cutting requirement.

### **Capacities**

- CNC controlled sawing
- Standard length tolerance +/- .060" for straight cut, +/-0.06" for mitre
- Material handling automation
- Mill bundle capacity

## **Service: Cold Sawing**

### **Capabilities**

- Servo drive blade feed and precision ball screw provide precision and vibration free cutting. Cutting force is infinitely adjustable to accommodate different types of material. Loading table and automatic shuttle vice.

### **Capacities**

- 5/8"-9" Round (Bar & Tube)
- 5/8"-6-1/4" Square (Bar & Tube)

## **Service: Deburring**

### **Capabilities**

- Speed and precision de-burring unit to provide excellent clean up to a standard band saw cut.

### **Capacities**

- Round tube – 1/2" to 5" OD round, 8" to 120" length.
- Shape tube – 1/2" to 4" square tube, 8" to 120" length.
- Angles, Flats, Channel, Rounds, Squares, Hex (inquire for size range)
- Up to 2500 pcs per hour.

## **Service: Robotic Beveling**

### **Capabilities**

- Robotic arm equipped with a 260 amp Hi-Def plasma. Straight and radius beveling capabilities.

### **Capacities**

- Part capacity – 4' wide and 8' long without repositioning
- Programmable for repeatability

## **Service: Blasting**

### **Capabilities**

- Blasting capabilities to meet any surface requirement.

### **Capacities**

- Maximum width – 98”
- Maximum length – 480”
- Maximum height – 18”
- Products – Plate, Tubing, Bars and Structural.

## **Service: Flattening**

### **Capabilities**

- Quality flattening capabilities to ensure the perfect finished part.

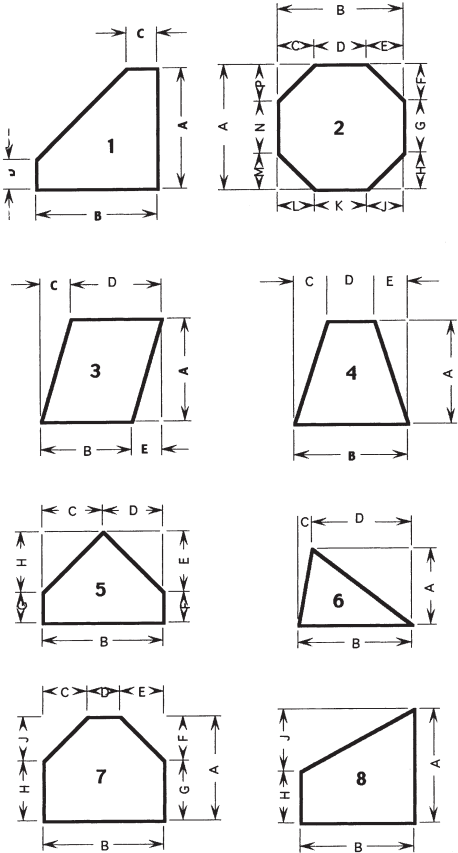
### **Capacities**

- Maximum width – 78.74”
- Minimum length – 6.29”
- Maximum thickness – .75”



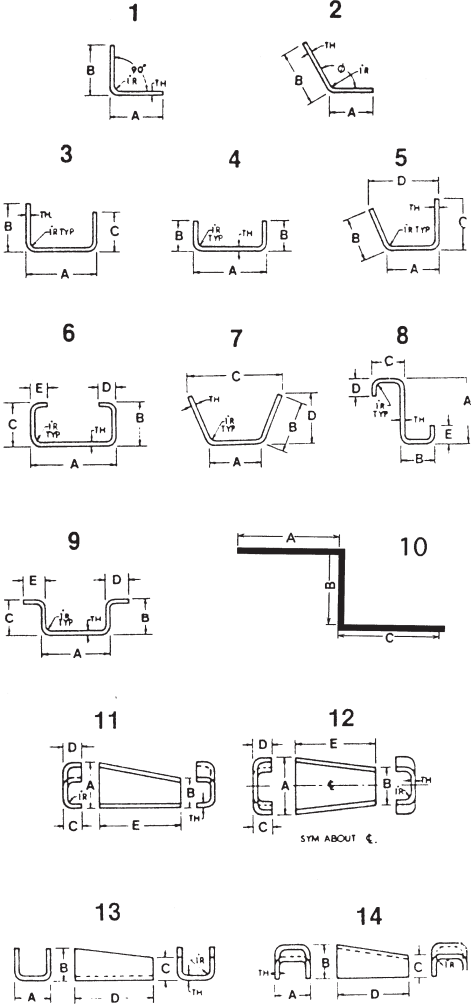
# Shear Cut Shapes

Schematic method for describing shear cut shapes. Refer to sketch number and dimensions when ordering.



# Forming Diagrams for Sheet & Plate

Refer to sketch number and dimensions when ordering. Indicate degree of angle.



# Useful Information

**Recommended Fabricating Practices** for Cold Forming (Bend axis transverse (perpendicular) to rolling direction "across the grain")\* Suggested inside Radii for various thicknesses expressed in terms of "t" where t = material thickness.

## STEEL

### **A36 - 36,000 psi Minimum Yield Strength**

Thru .250"	1t
.250 to .500"	1-1/2t
.500 to 1.00"	2t

### **Grade 50 - 50,000 psi Minimum Yield Strength (ASTM - A1011 HSLAS-F gr 50, A1018 HSLAS-F gr50)**

Thru .187"	1t
.187 to .229"	1t
.229 to .500"	1t

### **Grade 50 - 50,000 psi Minimum Yield Strength (ASTM - A572)**

Thru .187"	1-1/2t
.187" to .229"	1-1/2t
.229" to 1.00"	1-1/2t

### **Grade 80 - 80,000 psi Minimum Yield Strength (ASTM - A656)**

Thru .250"	2t
Over .250"	2t

### **AR200 - 70,000 psi Typical Yield Strength (No ASTM exists)**

Thru .187"	1-1/2t
.187 to .229"	2t
.229 to .500"	2-1/2t

### **100,000 psi Minimum Yield Strength (ASTM - A514 Gr B)**

2t perpendicular to the grain of the material  
3t parallel to the grain of the material

### **AR400 - 155,000 psi Typical Yield Strength (No ASTM exists)**

Thru .787"	3t (use 13.5t bottom die opening)
Over .787"	4t

## Recommended Fabricating Practices cont'd:

### ALUMINUM

#### 3003 - H14

Thru .062"	1/2t
Over .062 to .188"	1t
Over .188 to .250"	1-1/2t
Over .250 to .500"	2t

#### 5052 - H32

Thru .062"	1t
Over .062 to .375"	1-1/2t
Over .375 to .500"	2t

#### 6061 - T6

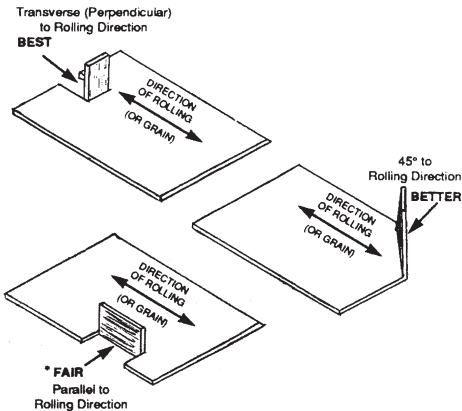
Thru .031"	1t
Over .031 to .062"	1-1/2t
Over .062 to .125"	2-1/2t

#### 6061 - T6 Tread Plate Diamond Pattern

Thickness	I.D. Bend Radius
.125"	3/8"
.156"	1/2"
.188"	1"
1/4"	1-1/2"
3/8"	1-3/4"

\*Larger minimum radii should be used for bending parallel to the rolling direction "with the grain".

\*\*The radii listed are the minimum recommended for bending sheets and plates without fracturing in a standard press brake with air bend dies. Other types of bending operations may require larger radii or permit smaller radii. The minimum permissible radii will also vary with the design and conditions of the tooling.



## Weights and Tolerances for Sheets

Gage No.	Dec. Equiv.	Tolerance Range		Lbs. per Sq. Ft.
		HR, P&O	CR	
7	.1793	.1873 .1713	.1873 .1713	7.500
8	.1644	.1724 .1564	.1724 .1564	6.875
9	.1495	.1575 .1415	.1575 .1415	6.250
10	.1345	.1425 .1265	.1405 .1285	5.625
11	.1196	.1276 .1116	.1256 .1136	5.000
12	.1046	.1126 .0966	.1106 .0986	4.375
13	.0897	.0967 .0827	.0947 .0847	3.750
14	.0747	.0817 .0677	.0797 .0697	3.125
15	.0673	.0733 .0613	.0723 .0623	2.813
16	.0598	.0658 .0538	.0648 .0548	2.500
17	.0538	.0598 .0478	.0578 .0498	2.250
18	.0478	.0528 .0428	.0518 .0438	2.000
19	.0418		.0458 .0378	1.750
20	.0359		.0389 .0329	1.500
21	.0329		.0359 .0299	1.375
22	.0299		.0329 .0269	1.250
23	.0269		.0299 .0239	1.125
24	.0239		.0269 .0209	1.000
25	.0209		.0239 .0179	.875
26	.0179		.0199 .0159	.750
27	.0164		.0184 .0144	.688
28	.0149		.0169 .0129	.625

Tolerance shown is for 48" wide sheets. Weights based on nominal thickness @ 41.82 lbs per square foot.

## Weights and Tolerances for Plates (Discrete)

Gage No.	Dec. Equiv.	Tolerance. Range HR, P&O	Lbs. per Sq. Ft.
3/4"	.750	.780 .740	30.63
5/8"	.625	.655 .615	25.53
1/2"	.500	.530 .490	20.40
3/8"	.375	.405 .365	15.30
5/16"	.312	.342 .302	12.75
1/4"	.250	.280 .240	10.20
3/16"	.187	.217 .177	7.651

Thickness tolerances per ASTM A6

## Weights Per Square Foot for Plates (Discrete)

Nominal Size Thickness (inches)	Weight (lbs./ sq.ft.)	Nominal Size Thickness (inches)	Weight (lbs./ sq.ft.)
3/16	7.651	2 1/8	86.790
1/4	10.200	2 1/4	91.890
5/16	12.750	2 1/2	102.100
3/8	15.300	2 3/4	112.300
7/16	17.850	3	122.406
1/2	20.400	3 1/4	132.700
9/16	22.970	3 1/2	142.940
5/8	25.530	3 3/4	153.200
11/16	28.050	4	163.400
3/4	30.630	4 1/4	173.400
13/16	33.150	4 1/2	183.800
7/8	35.740	5	204.200
1	40.840	5 1/2	224.400
1 1/8	45.950	6	245.040
1 1/4	51.000	6 1/2	265.500
1 3/8	56.160	7	285.900
1 1/2	61.258	7 1/2	306.000
1 5/8	66.370	8	326.400
1 3/4	71.470	9	367.200
1 7/8	76.500	10	408.000
2	81.680		

## Fraction, Decimal And Metric Equivalents

FRACTION INCHES	DEC.	M.M.	FRACTION INCHES	DEC.	M.M.
1/64	.0156	.3969	33/64	.5156	13.0969
1/32	.0313	.7938	17/32	.5313	13.4938
3/64	.0469	1.1906	35/64	.5469	13.8906
1/16	.0625	1.5875	9/16	.5625	14.2875
5/64	.0781	1.9844	37/64	.5781	14.6844
3/32	.0938	2.3813	19/32	.5938	15.0813
7/64	.1094	2.7781	39/64	.6094	15.4781
<b>1/8</b>	<b>.125</b>	<b>3.1750</b>	<b>5/8</b>	<b>.625</b>	<b>15.8750</b>
9/64	.1406	3.1750	41/64	.6406	16.2719
5/32	.1563	3.9688	21/32	.6563	16.6688
11/64	.1719	4.3656	43/64	.6719	17.0656
3/16	.1875	4.7625	11/16	.6875	17.4625
13/64	.2031	5.1594	45/64	.7031	17.8594
7/32	.2188	5.5563	23/32	.7188	18.2563
15/64	.3244	5.9531	47/64	.7344	18.6531
<b>1/4</b>	<b>.250</b>	<b>6.3500</b>	<b>3/4</b>	<b>.750</b>	<b>19.0500</b>
17/64	.2656	6.7469	49/64	.7656	19.4469
9/32	.2813	7.1438	25/32	.7813	19.8438
19/64	.2969	7.5406	51/64	.7969	20.2406
5/16	.3125	7.9375	13/16	.8125	20.6375
21/64	.3281	8.3344	53/64	.8281	21.0344
11/32	.3438	8.7313	27/32	.8438	21.4313
23/64	.3594	9.1281	55/64	.8594	21.8281
<b>3/8</b>	<b>.375</b>	<b>9.5250</b>	<b>7/8</b>	<b>.875</b>	<b>22.2250</b>
25/64	.3906	9.9219	57/64	.8906	22.6219
13/32	.4063	10.3188	29/32	.9063	23.0188
27/64	.4219	10.7156	59/64	.9219	23.4156
7/16	.4375	11.1125	15/16	.9375	23.8125
29/64	.4531	11.5094	61/64	.9531	24.2094
15/32	.4688	11.9063	31/32	.9688	24.6063
31/64	.4844	12.3031	63/64	.9844	25.0031
<b>1/2</b>	<b>.500</b>	<b>12.7000</b>	<b>1</b>	<b>1.000</b>	<b>25.4000</b>



## Glossary of Terms

**Aging** - Changes in physical and mechanical properties that occur when low carbon steel is stored for some time. Aging is also accelerated by exposure of steel to elevated temperatures. Stretcher strains and fluting can result from aging.

**Alloy Steel** - Alloy steel is a group of steels with different chemical composition, forming characteristics and strength levels from those normally present in carbon steel. Alloy steel normally has higher alloy content than steel classified as high strength low alloy steel. Alloy steel is often heat treated after part fabrication to develop the desired final physical properties.

**Annealing** - A process of controlled heating, soaking at elevated temperatures, and controlled cooling for the purposes of softening, developing a micro-structure, improve machinability, or obtaining a special set of physical or mechanical properties.

**Brinell Hardness Test** - In the Brinell Hardness Test, the value obtained by dividing the applied load (in kilograms) by the surface area of the impression (in square millimeters) resulting from forcing a hard steel or carbide ball onto the steel test sample. The higher the number the harder the steel.

**Camber** - This is the deviation from edge straightness. The amount is determined along the concave side using straight edge and expressed as a measure per unit length, e.g. 1" in 20'.

**Charpy V-Notch** - This is a test to measure the impact strength, or notch toughness, of steel. It is of primary importance to evaluate steels for use where a brittle fracture hazard exists.

**Coil Breaks** - A defect, exhibiting creases, a river type appearing, snaky pattern across a metal sheet running transverse to the coiling or rolling direction. The spacing is irregular and its location in the surface is very often random.

**Cold Rolled Sheet Products** - Flat rolled products for which the required thickness has been obtained by rolling HR bands or sheets without heating at approximately room temperature.

**Commercial Quality (CQ)** - Sheet of this quality is for uses involving simple bending or moderate drawing. *Commercial Quality* sheet can be bent flat upon itself in any direction at room temperature.

## Glossary of Terms

**Continuous Cast Steel** - A process involving the pouring of liquid steel continuously as it solidifies into a desired semi-finished shape (square, rectangular, or other cross section). The shape is withdrawn from the mold according to a calculated rate based upon the cross section being cast. One of the biggest metallurgical advantages is the uniformity of chemical composition and mechanical properties as compared to ingot cast steels. This results from the fact that the continuous cast slab solidifies in a few minutes, whereas in an ingot, complete solidification is not obtained until hours have gone by. Chemical segregation, characteristic of ingot cast steel, is virtually absent in continuous cast slabs.

**Deoxidizing** - The removal of oxygen from molten steel by use of suitable elements (i.e. silicon, aluminum) that react with oxygen readily.

**Direct Rolling** - A relatively new process whereby a continuous cast slab is moved directly into a hot finish mill for rolling into sheet or plate. This process avoids costly re-heating furnaces.

**Drawing Quality (DQ)** - As compared with sheet of Commercial Quality, Drawing Quality sheet has a greater degree of ductility and is more consistent in performance. The greater ductility and uniformity results from higher standards of production, selection and processing of the steel.

**Ductility** - Is a measure of the ability of steel to undergo permanent changes without rupturing.

**Edges** - Mill edge is the normal edge produced in hot rolling and it does not conform to any definite contour. Mill edge product may contain some edge imperfections the more common types of which are, checked edges, thin edges (feather) and damaged edges due to handling or processing. These edge conditions are detrimental where joining of the mill edges by welding is practiced. When the customer intends to shear or blank, a sufficient width allowance should be made by the purchaser to assure obtaining the desired shape and size of the pattern sheet.

**Elongation** - The amount of extension a test specimen undergoes to fracture during tensile testing. A measurement compares a before and after unit gauge length indexed into the specimen. The change is expressed numerically as a percentage of the original gauge length.

## Glossary of Terms

**Electrogalvanized** - A commonly used term to describe steel that has been plated with zinc using an electric current through an electrolyte. Proper name is Electrolytic Zinc Coated Sheet.

**Fatigue** - The tendency for a metal to break under conditions of repeated cyclic stressing considerably below the ultimate tensile strength.

**Fluting** - Fluting is a series of sharp parallel kinks or creases occurring in the arc when sheet steel is formed cylindrically, as to stretch the outer surface well beyond its yield point.

**Friction Digs** - A series of relatively short scratches variable in form and severity.

**Galvanized** - A term long used to describe steel coated with zinc. The term is associated with the hot-dip process but zinc coating can also be applied by electroplating. The hot-dip process consists of passing the steel through a bath of molten zinc. The electroplating process consists of the application of zinc by electrolytic deposition.

**Galvannealed** - Is a galvanized sheet steel which is altered by heat treatments or other processes immediately after coating, before the zinc solidifies. The coating produced consists entirely of **iron zinc alloy** and has a rougher appearance than the surface of regular coating. Sheets produced in this manner are dull gray in color, have no spangle, and after proper preparation, are well suited for painting.

**Hardenability** - Refers to the *depth* to which hardness penetrates. It is that property which determines the depth and distribution of hardness induced by quenching.

**High Strength Steel** - High strength structural quality sheet steel is a carbon/manganese steel... with a minimum specified yield strength of 35 KSI or greater (regardless of chemistry or processing used to achieve that strength level).

**Hot Rolled** - Describes steel products that are brought to approximate finished size by rolling at elevated temperatures.

**Hot Rolled Plate** - Product is defined in ASTM A6, paragraph 3.1. For widths over 8" to 48" thickness range is 0.230" and over. For widths over 48", thickness range is 0.180" and over. Plate product is always cut to length.

## Glossary of Terms

**Hot Rolled Sheet** - Hot rolled sheet product is defined by ASTM A568. For 12" to 48" inclusive, thickness range is 0.044" to 0.230", exclusive; over 48" wide, thickness range is 0.044 to 0.180", exclusive. This specification is the size reference for all ASTM sheet specifications.

**Ingot** - The solidified steel formed in a mold for subsequent rolling or forging.

**KSI** - K Equals 1000 PSI... thus the term is actually K (1000) PSI. The P has been dropped... and KSI is the new term. (i.e. 50 KSI-50,000 PSI)

**Killed Steel** - Steel deoxidized by silicon or aluminum to reduce the oxygen content to a minimum so that no reaction occurs during solidification of the metal. Killed Steels have more uniform properties and chemical composition than other types.

**Laminations** - Imperfections resulting from the presence of blisters, seams or foreign inclusions, and sometimes visible on the surface of the metal.

**Oiled** - Application of a suitable oil to flat rolled steel to retard rusting. When surface is a consideration, it is also desirable in reducing friction scratches that may develop in transit. The oil coating is not intended to serve as a lubricant for subsequent fabrication.

**Pipe Lamination** - A term used to describe a defect in steel, generally caused in the pouring of steel. It usually manifests itself as a void in the centerline of the ingot or slab.

**Porosity** - The existence of fine holes (pores) in steel.

**Quenching and Tempering** - A process by which steel is rapidly cooled from above its upper critical temperature to a temperature far below this range. Water or oil is normally used to accelerate the cooling. In the as quenched condition, the product is not suitable for most commercial application because of its lower ductility and high hardness. The steel must, therefore, be tempered in order to soften it somewhat to improve its ductility and toughness. Tempering is a heat treatment done at lower temperatures usually in the range between 400 degrees Fahrenheit and 1200 degrees Fahrenheit.

**Rockwell Hardness Test** - Forcing a cone-shaped diamond or hardened steel ball into the specimen being tested under standard pressure. The depth of penetration is an indication of the Rockwell Hardness.

## Glossary of Terms

**Scale** - An iron oxide formed on the surface of hot steel, sometimes in the form of large sheets which fall off when the steel is rolled.

**Slab** - A semi-finished steel block having an oblong cross-section in which width is at least twice thickness. It differs from a bloom which has a square, cross-section.

**Slitting** - The longitudinal splitting of the overall width of a flat product through rotary knives mounted on a rotating arbor to reduce the original width or to cut two or more separate strips.

**Stress Relieving** - A process of reducing residual stresses in a metal object by heating the object to a suitable temperature and holding for a sufficient time. This treatment may be applied to relieve stresses induced by flattening, straightening, machining or welding.

**Strip (HR)** - Flat steel produced by rolling single width, or multiple width and cut to final specified width by slitting. Final product width is 12 inches or less.

**Temper** - A condition produced in sheet steel by mechanical, chemical or thermal treatment. A given steel may be in the fully softened or annealed temper, or it may be cold worked to the hard temper, or further to spring temper. Intermediate tempers produced by cold working (rolling) are called "quarter-hard", "half-hard", and "three-quarters hard", and are determined by the amount of cold reduction.

**Tensile Strength** - The maximum tensile stress which a material is capable of sustaining. Tensile strength is calculated from the maximum load during tension test carried to rupture.

**Yield Point** - The load per unit of original cross-section area which a marked increase in the deformation of the specimen occurs without increase of load. It is usually calculated from the load determined by the drop of the beam of the testing machine or by use of dividers.

**Yield Strength** - The stress at which a material exhibits a specified deviation from proportionality of stress and strain. An offset of 0.20% is used for many metals. The point measured in PSI at which the metal cross-section will no longer return to its original shape.



## Formulas

### CIRCLE

Circumference = diameter x 3.1416

Circumference = radius x 6.2832

Diameter = radius x 2

Diameter = square root of (area/.7854)

Diameter = square root of area x 1.1283

Diameter = circumference x .31831

Radius = diameter /2

Radius = circumference x .15915

Radius = square root of area x .56419

Area = diameter x diameter x .7854

Area = half of circumference x half of the diameter

Area = square of circumference x .0796

Arc length = degrees x radius x .01745

Degrees of arc = length/(radius x .01745)

Radius of arc = length/(degrees x .01745)

Side of equal square = diameter x .8862

Side of inscribed square = diameter x .7071

Area of sector = area of circle x degrees of arc/360

### CONE

Area of surface = one-half of circumference of  
base x slant height x area of base

Volume = diameter x diameter x .7854 x one-third of  
the altitude

### CUBE

Volume = width x height x length

### CYLINDER

Area of surface = diameter x 3.1416 x length + area  
of the two bases

Area of base = diameter x diameter x .7854

Area of base = volume/length

Length = volume/area of base

Volume = length x area of base

Capacity in gallons = volume in inches/231

Capacity in gallons = diameter x diameter x length  
x .0034

Capacity in gallons = volume in feet x 7.48

## **Formulas**

### **ELLIPSE**

Area = short diameter x long diameter x .78545

### **HEXAGON**

Area = width of side x 2.598 x width of side

### **PARALLELOGRAM**

Area = base x distance between the two parallel sides

### **PYRAMID**

Area = 1/2 perimeter of base x slant height + area  
of base

Volume = area of base x 1/3 of the altitude

### **RECTANGLE**

Volume = length x width

### **RECTANGULAR PRISM**

Volume = width x height x length

### **SPHERE**

Area of surface = diameter x diameter x 3.1416

Side of inscribed cube = radius x 1.1547

Volume = diameter x diameter x diameter x .5236

### **SQUARE**

Area = length x width

### **TRIANGLE**

Area = one-half of height times base

### **TRAPEZOID**

Area = one-half of the sum of the parallel sides  
x the height



## **Material Return Policy**

**MATERIAL RETURNS** - No merchandise returns will be accepted without prior authorization in the form of a "Customer Concern Form" issued by us. Customers must contact their inside salesperson for authorization. Material accepted as "return for credit", where no error on our part exists, will be subject to restocking charges.

Certain items, such as aluminum thin sheets, are so easily damaged in transit or in the customer's shop, that we do not accept returns.

**RETURN GOODS - DEFECTIVE MATERIAL** - In any case where a shipment proves to be unsuitable, it is understood the buyer will immediately discontinue its use and advise the seller of the facts. This will give the seller an opportunity to make a decision, so further loss may be prevented or minimized.

We limit our responsibility to replacement of the material. No consequential damages, charges for labor, tooling or time will be allowed.

If defective, the returned material must be accompanied by a "Customer Concern Form".

**RETURN GOODS - NOT DEFECTIVE** - Customers are allowed a reasonable time for receipt and inspection of material shipped incorrectly. In the case of customer error, we will accept material returned for replacement, providing the return is made within a reasonable time from the delivery date, and our return goods procedure is followed. All returns, except those due to our error, will be subject to a restocking charge.

However, if the material was plated, polished, masked, or changed from a standard by cutting or sawing, the likelihood is that we cannot accept return. Any such goods must be handled by negotiations and purchase.

Return privileges do not apply in the case of extraordinary quantities or special ordered items obtained for a specific customer order.

**QUOTATIONS-** All price quotations are subject to change without notice, prior sale and, unless otherwise specified, are for immediate acceptance. All sales are made subject to material availability at time of order.

**CONFIRMATION OF ORDERS -** Every effort is made to ship verbal orders exactly as requested. However, when material is processed and/or shipped prior to receipt of a written confirming order, we cannot assume responsibility for any deviation from instructions or specifications contained on the confirming order.

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