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AltoonaPipeandSteel.com

# Material Reference Book



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# INDEX

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Beams and Channels . . . . .	3-9
Angles, Tees, Bar Channels . . . . .	10-12
Bars . . . . .	13-19
Sheet, Coil, Plate, Floor Plate . . . . .	20-22
Tubing and Pipe . . . . .	23-34
Bar Grating, Expanded Metal, Grip Strut, Stair Treads and Tread Grip. . . . .	35-40

# STANDARD BEAMS

## ASTM A-36

### STOCK LENGTHS:

3" thru 12": 20', 30', 40' and 60'

Sizes over 12": 20', 30' and 60'

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
3S	5.70	3	2 $\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{16}$
	7.50	3	2 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$
4S	7.70	4	2 $\frac{5}{8}$	$\frac{5}{16}$	$\frac{3}{16}$
	9.50	4	2 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{5}{16}$
5S	7.20	5	3	$\frac{5}{16}$	$\frac{3}{16}$
6S	12.50	6	3 $\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$
	17.25	6	3 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{16}$
7S	15.30	7	3 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{4}$
8S	18.40	8	4	$\frac{7}{16}$	$\frac{1}{4}$
	23.00	8	4 $\frac{1}{8}$	$\frac{7}{16}$	$\frac{7}{16}$
10S	25.40	10	4 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{16}$
	35.00	10	5	$\frac{1}{2}$	$\frac{5}{8}$
12S	31.80	12	5	$\frac{9}{16}$	$\frac{3}{8}$
	35.00	12	5 $\frac{1}{8}$	$\frac{9}{16}$	$\frac{7}{16}$
	40.80	12	5 $\frac{1}{4}$	$\frac{11}{16}$	$\frac{7}{16}$
	50.00	12	5 $\frac{1}{2}$	$\frac{11}{16}$	$\frac{11}{16}$
15S	42.90	15	5 $\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{16}$
	50.00	15	5 $\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$
18S	54.70	18	6	$\frac{11}{16}$	$\frac{7}{16}$
	70.00	18	6 $\frac{1}{4}$	$\frac{11}{16}$	$\frac{11}{16}$
20S	66.00	20	6 $\frac{1}{4}$	$\frac{13}{16}$	$\frac{1}{2}$
	75.00	20	6 $\frac{3}{8}$	$\frac{13}{16}$	$\frac{5}{8}$
	86.00	20 $\frac{1}{4}$	7	$\frac{15}{16}$	$\frac{11}{16}$
24S	96.00	20 $\frac{1}{4}$	7 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{13}{16}$
	80.00	24	7	$\frac{7}{8}$	$\frac{1}{2}$
	106.00	24 $\frac{1}{2}$	7 $\frac{7}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
	121.00	24 $\frac{1}{2}$	8	1 $\frac{11}{16}$	$\frac{13}{16}$

# WIDE FLANGE

## ASTM A-36

### STOCK LENGTHS:

4" thru 12": 20', 30', 40' and 60'

Sizes over 12": 20', 30' and 60'

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches	
			Width Inches	Thickness Inches		
4W	13.0	4 1/8	4	3/8	1/4	
5W	16.0	5	5	3/8	1/4	
	19.0	5 1/8	5	7/16	1/4	
6W	9.0	5 1/8	4	3/8	3/16	
	12.0	6	4	1/4	1/4	
	15.0	6	6	1/4	1/4	
	16.0	6 1/4	4	3/8	1/4	
	20.0	6 1/4	6	3/8	1/4	
	25.0	6 3/8	6 1/2	7/16	3/16	
6M	4.4	6	1 1/8	3/16	1/8	
8W	10.0	7 7/8	4	3/16	3/16	
	13.0	8	4	1/4	1/4	
	15.0	8 1/8	4	3/16	1/4	
	18.0	8 1/8	5 1/4	5/16	1/4	
	21.0	8 1/4	5 1/4	3/8	1/4	
	24.0	7 7/8	6 1/2	3/8	1/4	
	28.0	8	6 1/2	7/16	3/16	
	31.0	8	8	7/16	5/16	
	35.0	8 3/8	8	1/2	5/16	
	40.0	8 1/4	8 1/8	9/16	3/8	
	48.0	8 1/2	8 1/8	11/16	3/8	
	58.0	8 3/4	8 1/4	13/16	1/2	
	67.0	9	8 1/4	15/16	9/16	
	8M	6.5	8	2 1/4	3/16	1/8
10W	12.0	9 7/8	4	3/16	3/16	
	15.0	10	4	1/4	1/4	
	17.0	10 1/8	4	3/16	1/4	
	19.0	10 1/4	4	3/8	1/4	
	22.0	10 1/8	5 1/4	3/8	1/4	
	26.0	10 3/8	5 1/4	7/16	1/4	
	30.0	10 1/2	5 3/4	1/2	5/16	
	33.0	9 3/4	8	7/16	3/16	
	39.0	9 7/8	8	1/2	3/16	
	45.0	10 1/8	8	5/8	3/8	
10W	49.0	10	10	9/16	9/16	
	54.0	10 1/8	10	5/8	3/8	
	60.0	10 1/4	10 1/8	11/16	7/16	
	68.0	10 3/8	10 1/8	3/4	1/2	
	77.0	10 5/8	10 1/4	7/8	1/2	
	88.0	10 7/8	10 1/4	1	5/8	
	100.0	11 1/8	10 3/8	1 1/8	11/16	
	112.0	11 3/8	10 3/8	1 1/4	3/4	
	10M	9.0	10	2 3/8	3/16	3/16
	12W	14.0	11 7/8	4	1/4	3/16
16.0		12	4	1/4	1/4	

# WIDE FLANGE CONTINUED

## ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
12W	19.0	12 1/8	4	3/8	1/4
	22.0	12 1/8	4	7/16	1/4
	26.0	12 1/8	6 1/2	3/8	1/4
	30.0	12 3/8	6 1/2	7/16	1/4
	35.0	12 1/2	6 1/2	1/2	5/16
	40.0	12	8	1/2	3/16
	45.0	12	8	9/16	5/16
	50.0	12 1/4	8 1/2	5/8	3/8
	53.0	12	10	5/8	3/8
	58.0	12 1/4	10	5/8	3/8
	65.0	12 1/8	12	5/8	3/8
	72.0	12 1/4	12	1 1/16	7/16
	79.0	12 3/8	12 1/8	3/4	1/2
	87.0	12 1/2	12 1/8	13/16	1/2
	96.0	12 3/4	12 1/8	7/8	5/8
	106.0	12 1/8	12 1/4	1	5/8
	120.0	13 1/8	12 3/8	1 1/8	1 1/16
	136.0	13 3/8	12 3/8	1 1/4	1 3/16
	152.0	13 3/4	12 1/2	1 3/8	7/8
	170.0	14	12 3/8	1 9/16	1 9/16
190.0	14	12 3/8	1 3/4	1 1/16	
12M 14W	11.8	12	3	1/4	3/16
	22.0	13 3/4	5	5/16	1/4
	26.0	13 7/8	5	7/16	1/4
	30.0	13 7/8	6 3/4	3/8	1/4
	34.0	14	6 3/4	7/16	5/16
	38.0	14 1/8	6 3/4	1/2	5/16
	43.0	13 3/8	8	1/2	5/16
	48.0	13 3/4	8	5/8	5/16
	53.0	13 7/8	8	1 1/16	3/8
	61.0	13 7/8	10	5/8	3/8
	68.0	14	10	3/4	7/16
	74.0	14 1/8	10 1/8	13/16	7/16
	82.0	14 1/4	10 1/8	7/8	1/2
	90.0	14	14 1/2	1 1/16	7/16
	109.0	14 3/8	14 1/2	1 1/2	1/2
	120.0	14 1/2	14 3/8	1 9/16	5/8
	132.0	14 3/8	14 3/4	1	5/8
	159.0	15	15 5/8	1 3/16	3/4
	211.0	15 3/4	15 3/4	1 9/16	1
	233.0	16	15 1/2	1 3/4	1 1/16
257.0	16 3/4	16	1 7/8	1 3/16	
283.0	16 3/4	16 1/2	2 1/16	1 9/16	
311.0	17 1/8	16 1/4	2 1/4	1 7/16	
342.0	17 1/2	16 3/8	2 1/2	1 9/16	
370.0	17 1/8	16 1/2	2 5/8	1 5/8	
398.0	18 1/4	16 5/8	2 7/8	1 3/4	
426.0	18 3/8	16 3/4	3 1/16	1 7/8	
455.0	19	16 7/8	3 1/4	2	
500.0	19 1/8	17	3 1/2	2 3/16	
550.0	20 1/4	17 3/16	3 3/4	2 3/8	
605.0	20 7/8	17 3/8	4 3/16	2 5/8	
665.0	21 1/8	17 3/4	4 1/2	2 7/8	
730.0	22 3/8	17 7/8	4 7/8	3	

# WIDE FLANGE CONTINUED

## ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
16W	26.0	15 3/4	5 1/2	3/8	1/4
	31.0	15 1/8	5 1/2	7/16	1/4
	36.0	15 1/8	7	7/16	5/16
	40.0	16	7	1/2	5/16
	45.0	16 1/8	7	9/16	3/8
	50.0	16 1/4	7 1/8	5/8	3/8
	57.0	16 3/8	7 1/8	11/16	7/16
	67.0	16 3/8	10 1/4	11/16	3/4
	77.0	16 1/2	10 1/4	3/4	7/16
	89.0	16 3/4	10 3/8	7/8	1/2
	100.0	17	10 3/8	1	9/16
18W	35.0	17 3/4	6	7/16	3/16
	40.0	17 7/8	6	1/2	3/16
	46.0	18	6	5/8	3/8
	50.0	18	7 1/2	9/16	3/8
	55.0	18 1/8	7 1/2	5/8	3/8
	60.0	18 1/4	7 1/2	11/16	7/16
	65.0	18 3/8	7 3/8	3/4	7/16
	71.0	18 1/2	7 3/8	13/16	1/2
	76.0	18 1/4	11	11/16	7/16
	86.0	18 3/8	11 1/8	3/4	1/2
	97.0	18 5/8	11 1/8	7/8	9/16
106.0	18 3/4	11 1/4	15/16	9/16	
119.0	19	11 1/4	1 1/16	5/8	
130.0	19 1/4	11 1/8	1 3/16	11/16	
143.0	19 1/2	11 1/4	1 5/16	3/4	
21W	44.0	20 5/8	6 1/2	7/16	3/8
	50.0	20 7/8	6 1/2	9/16	3/8
	57.0	21	6 1/2	5/8	3/8
	62.0	21	8 1/4	5/8	3/8
	68.0	21 1/8	8 1/4	11/16	7/16
	73.0	21 1/4	8 1/4	3/4	7/16
	83.0	21 3/8	8 3/8	13/16	1/2
	93.0	21 5/8	8 3/8	15/16	9/16
	101.0	21 3/8	12 1/4	13/16	1/2
	111.0	21 1/2	12 3/8	7/8	9/16
	147.0	22	12 1/2	1 1/8	3/4
166.0	22 1/2	12 3/8	1 3/8	3/4	
24W	55.0	23 5/8	7	1/2	3/8
	62.0	23 3/4	7	9/16	7/16
	68.0	23 3/4	9	9/16	7/16
	76.0	23 7/8	9	11/16	7/16
	84.0	24 1/8	9	3/4	1/2
	94.0	24 1/4	9 1/8	7/8	1/2
	104.0	24	12 3/4	3/4	1/2
	117.0	24 1/4	12 3/4	7/8	9/16
	131.0	24 1/2	12 7/8	15/16	5/8
	146.0	24 3/4	12 7/8	1 1/16	5/8
	162.0	25	13	1 1/4	11/16
176.0	25 3/8	12 5/8	1 1/8	3/4	
27W	84.0	26 3/4	10	5/8	7/16
	94.0	26 7/8	10	3/4	1/2
	102.0	27 1/8	10	13/16	1/2
	114.0	27 1/4	10 1/8	15/16	9/16



# WIDE FLANGE CONTINUED

## ASTM A-36

Nominal Size	Weight Per Ft.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
	146.0	27 3/8	14	1	5/8
	161.0	27 5/8	14	1 1/16	1 1/16
	178.0	27 3/4	14 1/8	1 3/16	3/4
	194.0	28 1/8	14	1 3/8	3/4
	217.0	28 3/8	14 1/8	1 1/2	7/8
<b>30W</b>	99.0	29 5/8	10 1/2	1 1/16	1/2
	108.0	29 7/8	10 1/2	3/4	9/16
	116.0	30	10 1/2	7/8	9/16
	124.0	30 1/8	10 1/2	15/16	9/16
	132.0	30 1/4	10 1/2	1	5/8
	148.0	30 5/8	10 1/2	1	3/4
<b>33W</b>	118.0	32 7/8	11 1/2	3/4	9/16
	130.0	33 1/8	11 1/2	7/8	9/16
	141.0	33 1/4	11 1/2	15/16	5/8
	152.0	33 1/2	11 5/8	1 1/16	5/8
	169.0	33 7/8	11 1/2	1 1/4	1 1/16
<b>33W</b>	201.0	33 5/8	15 3/4	1 1/8	1 1/16
	221.0	33 7/8	15 3/4	1 1/4	3/4
	241.0	34 1/8	15 3/8	1 3/8	13/16
	263.0	34 1/2	15 3/4	1 9/16	7/8
	291.0	34 7/8	15 7/8	1 3/4	1
	318.0	35 3/16	16	1 7/8	1
	354.0	35 1/2	16	2	1 3/16
<b>36W</b>	135.0	35 1/2	12	1 3/16	5/8
	150.0	35 7/8	12	1 5/16	5/8
	160.0	36	12	1	5/8
	170.0	36 1/8	12	1 1/8	1 1/16
	182.0	36 3/8	12 1/8	1 3/16	3/4
	194.0	36 1/2	12 1/8	1 1/4	3/4
	210.0	36 3/4	12 1/8	1 3/8	13/16
	230.0	35 7/8	16 1/2	1 1/4	3/4
	232.0	37 1/8	12 1/8	1 5/8	7/8
	245.0	36 1/8	16 1/2	1 3/8	13/16
	256.0	37 1/2	12 3/16	1 3/4	1
	260.0	36 1/4	16 1/2	1 7/16	1 3/16
	280.0	36 1/2	16 5/8	1 9/16	7/8
	300.0	36 3/4	16 5/8	1 1 1/16	1 5/16
	328.0	37	16 5/8	1 7/8	1
	359.0	37 3/8	16 3/4	2	1 1/8

# STANDARD CHANNELS

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## ASTM A-36

### STRUCTURAL STOCK LENGTHS:

*Thru 12": 20', 30', 40' and 60'*

*Over 12": 20', 30' and 60'*

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Depth of Section	Wt. Per Ft.	Flange Width	Web Thickness
3" x	4.10	1 $\frac{3}{8}$	$\frac{3}{16}$
	5.00	1 $\frac{1}{2}$	$\frac{1}{4}$
	6.00	1 $\frac{5}{8}$	$\frac{3}{8}$
4" x	5.40	1 $\frac{5}{8}$	$\frac{3}{16}$
	7.25	1 $\frac{3}{4}$	$\frac{5}{16}$
5" x	6.70	1 $\frac{3}{4}$	$\frac{3}{16}$
	9.00	1 $\frac{7}{8}$	$\frac{5}{16}$
6" x	8.20	1 $\frac{7}{8}$	$\frac{3}{16}$
	10.50	2	$\frac{5}{16}$
	13.00	2 $\frac{1}{8}$	$\frac{7}{16}$
7" x	9.80	2 $\frac{1}{8}$	$\frac{3}{16}$
	12.25	2 $\frac{1}{4}$	$\frac{5}{16}$
	14.75	2 $\frac{5}{16}$	$\frac{3}{8}$
8" x	11.50	2 $\frac{1}{4}$	$\frac{1}{4}$
	13.75	2 $\frac{3}{8}$	$\frac{5}{16}$
	18.75	2 $\frac{1}{2}$	$\frac{1}{2}$
9" x	13.40	2 $\frac{3}{8}$	$\frac{1}{4}$
	15.00	2 $\frac{1}{2}$	$\frac{5}{16}$
	20.00	2 $\frac{5}{8}$	$\frac{7}{16}$
10" x	15.30	2 $\frac{5}{8}$	$\frac{1}{4}$
	20.00	2 $\frac{3}{4}$	$\frac{3}{8}$
	25.00	2 $\frac{7}{8}$	$\frac{1}{2}$
	30.00	3	1 $\frac{1}{16}$
12" x	20.70	3	$\frac{5}{16}$
	25.00	3	$\frac{3}{8}$
	30.00	3 $\frac{1}{8}$	$\frac{1}{2}$
15" x	33.90	3 $\frac{3}{8}$	$\frac{3}{8}$
	40.00	3 $\frac{1}{2}$	$\frac{1}{2}$
	50.00	3 $\frac{3}{4}$	1 $\frac{1}{16}$

# MISCELLANEOUS CHANNELS

## ASTM A-36

### STOCK LENGTHS:

*Thru 12": 20', 30', 40' and 60'*

*Over 12": 20', 30' and 60'*

Depth of Section	Wt. Per Ft.	Flange Width	Web Thickness
3" x	7.10	1 <sup>15</sup> / <sub>16</sub>	<sup>5</sup> / <sub>16</sub>
	9.00	2 <sup>1</sup> / <sub>8</sub>	<sup>1</sup> / <sub>2</sub>
4" x	13.80	2 <sup>1</sup> / <sub>2</sub>	<sup>1</sup> / <sub>2</sub>
6" x	12.00	2 <sup>1</sup> / <sub>2</sub>	<sup>5</sup> / <sub>16</sub>
	15.10	2 <sup>15</sup> / <sub>16</sub>	<sup>5</sup> / <sub>16</sub>
	15.30	3 <sup>1</sup> / <sub>2</sub>	<sup>5</sup> / <sub>16</sub>
	16.30	3	<sup>3</sup> / <sub>8</sub>
	18.00	3 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>8</sub>
7" x	17.60	3	<sup>3</sup> / <sub>8</sub>
	19.10	3 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>8</sub>
	22.70	3 <sup>5</sup> / <sub>8</sub>	<sup>1</sup> / <sub>2</sub>
	8" x	8.50	1 <sup>7</sup> / <sub>8</sub>
8" x	18.70	3	<sup>3</sup> / <sub>8</sub>
	20.00	3	<sup>3</sup> / <sub>8</sub>
	21.40	3 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>8</sub>
	22.80	3 <sup>1</sup> / <sub>2</sub>	<sup>7</sup> / <sub>16</sub>
	9" x	23.90	3 <sup>1</sup> / <sub>2</sub>
10" x	25.40	3 <sup>1</sup> / <sub>2</sub>	<sup>7</sup> / <sub>16</sub>
	6.50	1 <sup>1</sup> / <sub>8</sub>	<sup>1</sup> / <sub>8</sub>
10" x	8.40	1 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>16</sub>
	22.00	3 <sup>1</sup> / <sub>2</sub>	<sup>5</sup> / <sub>16</sub>
10" x	28.50	4	<sup>7</sup> / <sub>16</sub>
	12" x	10.60	1 <sup>1</sup> / <sub>2</sub>
12" x	31.00	3 <sup>5</sup> / <sub>8</sub>	<sup>3</sup> / <sub>8</sub>
	35.00	3 <sup>3</sup> / <sub>4</sub>	<sup>7</sup> / <sub>16</sub>
	40.00	3 <sup>7</sup> / <sub>8</sub>	<sup>9</sup> / <sub>16</sub>
	50.00	4 <sup>1</sup> / <sub>8</sub>	<sup>13</sup> / <sub>16</sub>
	13" x	31.80	4
13" x	35.00	4 <sup>1</sup> / <sub>16</sub>	<sup>7</sup> / <sub>16</sub>
	40.00	4 <sup>3</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>
	50.00	4 <sup>3</sup> / <sub>8</sub>	<sup>13</sup> / <sub>16</sub>
	18" x	42.70	4
18" x	45.80	4	<sup>1</sup> / <sub>2</sub>
	51.90	4 <sup>1</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>
	58.00	4 <sup>1</sup> / <sub>4</sub>	<sup>11</sup> / <sub>16</sub>

# ANGLES

## A-36

### BAR SIZE

STOCK LENGTHS: 20' and 40'

### STRUCTURAL

STOCK LENGTHS: 20', 30', 40' and 60'

Size	Weight Per Ft.	Size	Weight Per Ft.
1/2 x 1/12 x 1/8	.38	2 1/2 x 2 x 3/16	2.75
5/8 x 5/8 x 1/8	.48	x 1/4	3.62
3/4 x 3/4 x 1/8	.59	x 5/16	4.50
7/8 x 7/8 x 1/8	.70	x 3/8	5.30
1 x 5/8 x 1/8	.64	2 1/2 x 2 1/2 x 3/16	3.07
1 x 1 x 1/8	.80	x 1/4	4.10
x 3/16	1.16	x 5/16	5.00
x 1/4	1.49	x 3/8	5.90
1 1/8 x 1 1/8 x 1/8	.90	x 1/2	7.70
1 1/4 x 1 1/4 x 1/8	1.01	<b>STRUCTURAL</b>	
x 3/16	1.48	3 x 2 x 3/16	3.10
x 1/4	1.92	x 1/4	4.10
1 1/2 x 1 1/4 x 3/16	1.64	x 5/16	5.00
1 1/2 x 1 1/2 x 1/8	1.23	x 3/8	5.90
x 3/16	1.80	x 1/2	7.70
x 1/4	2.34	3 x 2 1/2 x 1/4	4.50
1 3/4 x 1 1/4 x 1/8	1.23	x 5/16	5.60
1 3/4 x 1 3/4 x 1/8	1.44	x 3/8	6.60
x 3/16	2.12	x 1/2	8.50
x 1/4	2.77	3 x 3 x 3/16	3.70
2 x 1 1/4 x 3/16	1.96	x 1/4	4.90
x 1/4	2.55	x 5/16	6.10
2 x 1 1/2 x 1/8	1.44	x 3/8	7.20
x 3/16	2.12	x 1/2	9.40
x 1/4	2.77	3 1/2 x 2 1/2 x 1/4	4.90
2 x 2 x 1/8	1.65	x 5/16	6.10
x 3/16	2.44	x 3/8	7.20
x 1/4	3.19	x 1/2	9.40
x 5/16	3.92	3 1/2 x 3 x 1/4	5.40
x 3/8	4.70	x 5/16	6.60
2 1/2 x 1 1/2 x 3/16	2.44	x 3/8	7.90
x 1/4	3.19	x 1/2	10.20
x 5/16	3.92	3 1/2 x 3 1/2 x 1/4	5.80
3 1/2 x 3 1/2 x 5/16	7.20	5 x 5 x 3/4	23.6

# ANGLES CONTINUED

## A-36

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

# TEES

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## A-36

STOCK LENGTHS: 20'

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Size	Weight Per Ft.
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{16}$	1.55
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$	1.80
$\quad \quad \quad \times \frac{1}{4}$	2.43
$1\frac{3}{4} \times 1\frac{3}{4} \times \frac{3}{16}$	2.26
$2 \times 2 \times \frac{1}{4}$	3.62
$\quad \quad \quad \times \frac{5}{16}$	4.30
$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$	4.60

# BAR CHANNELS

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## A-36

STOCK LENGTHS: 20'

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Size	Weight Per Ft.
$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{8}$	.56
$\frac{7}{8} \times \frac{3}{8} \times \frac{1}{8}$	.65
$1 \times \frac{3}{8} \times \frac{1}{8}$	.68
$1 \times \frac{1}{2} \times \frac{1}{8}$	.84
$1\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	1.01
$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$	1.12
$2 \times \frac{1}{2} \times \frac{1}{8}$	1.43
$2 \times \frac{5}{8} \times \frac{1}{4}$	2.28
$2 \times 1 \times \frac{1}{8}$	1.59
$2 \times 1 \times \frac{3}{16}$	2.32
$2\frac{1}{2} \times \frac{5}{8} \times \frac{3}{16}$	2.27

# FLAT BAR

**HOT ROLLED, COLD FINISHED,  
CARBON AND ALLOY**  
STOCK LENGTHS: 10', 12', 20' R/L

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot		
$\frac{1}{8}$ X	$\frac{1}{4}$	.106	3	1.910	
	$\frac{5}{16}$	.133	$3\frac{1}{2}$	2.230	
	$\frac{3}{8}$	.159	4	2.550	
	$\frac{7}{16}$	.186	$4\frac{1}{2}$	2.870	
	$\frac{1}{2}$	.213	5	3.190	
	$\frac{5}{8}$	.266	6	3.820	
	$\frac{3}{4}$	.319	$\frac{1}{4}$ X	$\frac{3}{8}$	.319
	$\frac{7}{8}$	.372		$\frac{1}{2}$	.425
	1	.425		$\frac{5}{8}$	.531
	$1\frac{1}{4}$	.531		$\frac{3}{4}$	.638
	$1\frac{1}{2}$	.638		$\frac{7}{8}$	.740
	$1\frac{3}{4}$	.744		1	.850
	2	.850		$1\frac{1}{8}$	.960
	$2\frac{1}{4}$	.960		$1\frac{1}{4}$	1.060
	$2\frac{1}{2}$	1.060		$1\frac{1}{2}$	1.280
	3	1.280		$1\frac{3}{4}$	1.490
	$3\frac{1}{2}$	1.490		2	1.700
4	1.700	$2\frac{1}{4}$		1.910	
5	2.130	$2\frac{1}{2}$		2.130	
6	2.550	$2\frac{3}{4}$		2.340	
8	3.400	3		2.550	
$\frac{3}{16}$ X	$\frac{3}{8}$	.240		$3\frac{1}{2}$	2.980
	$\frac{1}{2}$	.319		4	3.400
	$\frac{5}{8}$	.400	$4\frac{1}{2}$	3.830	
	$\frac{3}{4}$	.478	5	4.250	
	$\frac{7}{8}$	.558	6	5.100	
	1	.638	7	5.950	
	$1\frac{1}{4}$	.797	8	6.800	
	$1\frac{1}{2}$	.956	10	8.500	
	$1\frac{3}{4}$	1.116	12	10.200	
	2	1.280	$\frac{5}{16}$ X	$\frac{1}{2}$	.531
	$2\frac{1}{4}$	1.430		$\frac{5}{8}$	.664
	$2\frac{1}{2}$	1.590		$\frac{3}{4}$	.797
	$2\frac{3}{4}$	1.750		1	1.060
				$1\frac{1}{4}$	1.330

# FLAT BAR CONTINUED

**HOT ROLLED, COLD FINISHED,  
CARBON AND ALLOY**  
*STOCK LENGTHS: 10', 12', 20' R/L*

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
$5/16$ X $1\frac{1}{2}$	1.590	$7/16$ X $1/2$	.744
2	2.130	$3/4$	1.120
$2\frac{1}{4}$	2.390	1	1.490
$2\frac{1}{2}$	2.660	$1\frac{1}{4}$	1.860
3	3.190	$1\frac{1}{2}$	2.230
$3\frac{1}{2}$	3.720	2	2.980
4	4.250	$2\frac{1}{2}$	3.720
5	5.310	$1/2$ X $5/8$	1.060
6	6.380	$3/4$	1.280
7	7.420	$7/8$	1.490
$3/8$ X $1/2$	.638	1	1.700
$5/8$	.797	$1\frac{1}{4}$	2.130
$3/4$	.956	$1\frac{1}{2}$	2.550
$7/8$	1.120	$1\frac{3}{4}$	2.980
1	1.280	2	3.400
$1\frac{1}{4}$	1.590	$2\frac{1}{4}$	3.830
$1\frac{3}{8}$	1.750	$2\frac{1}{2}$	4.250
$1\frac{1}{2}$	1.910	$2\frac{3}{4}$	4.680
$1\frac{5}{8}$	2.070	3	5.100
$1\frac{3}{4}$	2.230	$3\frac{1}{4}$	5.530
2	2.550	$3\frac{1}{2}$	5.950
$2\frac{1}{4}$	2.870	4	6.800
$2\frac{1}{2}$	3.190	$4\frac{1}{2}$	7.650
3	3.830	5	8.500
$3\frac{1}{2}$	4.460	$5\frac{1}{2}$	9.350
4	5.100	6	10.200
$4\frac{1}{2}$	5.740	7	11.900
5	6.380	8	13.600
$5\frac{1}{2}$	7.010	10	17.000
6	7.650	12	20.400
7	8.920	$5/8$ X $3/4$	1.590
8	10.200	1	2.130
10	12.750	$1\frac{1}{4}$	2.660
12	15.300	$1\frac{1}{2}$	3.190
$5/8$ X $1\frac{3}{4}$	3.720	$1\frac{3}{4}$	3.720
2	4.250	$7/8$ X 2	5.950
$2\frac{1}{4}$	4.780	3	8.930



# FLAT BAR CONTINUED

## HOT ROLLED, COLD FINISHED, CARBON AND ALLOY

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

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
$\frac{5}{8}$ x $2\frac{1}{2}$	5.310	1 x $1\frac{3}{4}$	5.950
3	6.380	2	6.800
$3\frac{1}{2}$	7.440	$2\frac{1}{2}$	7.650
4	8.500	$2\frac{1}{2}$	8.500
5	10.630	$2\frac{3}{4}$	9.350
6	12.750	3	10.200
8	17.000	$3\frac{1}{4}$	11.050
10	21.250	$3\frac{1}{2}$	11.900
12	25.500	4	13.600
$\frac{3}{4}$ x 1	2.550	$4\frac{1}{2}$	15.300
$1\frac{1}{4}$	3.190	5	17.000
$1\frac{1}{2}$	3.830	$5\frac{1}{2}$	18.700
$1\frac{3}{4}$	4.460	6	20.400
2	5.100	7	23.800
$2\frac{1}{4}$	5.740	8	27.200
$2\frac{1}{2}$	6.380	9	30.600
$2\frac{3}{4}$	7.010	10	34.000
3	7.650	12	40.080
$3\frac{1}{2}$	8.930	$1\frac{1}{4}$ x $1\frac{1}{2}$	6.380
4	10.200	$1\frac{3}{4}$	7.440
$4\frac{1}{2}$	11.480	2	8.500
5	12.750	$2\frac{1}{2}$	10.630
$5\frac{1}{2}$	14.020	3	12.750
6	15.300	$3\frac{1}{4}$	13.810
7	17.850	$3\frac{1}{2}$	14.880
8	20.400	4	17.000
10	25.500	5	21.250
12	30.600	6	25.500
$\frac{7}{8}$ x 1	2.980	8	34.000
$1\frac{1}{4}$	3.72	10	42.500
$1\frac{1}{2}$	4.460	12	51.000
$3\frac{1}{2}$	10.41	$1\frac{1}{2}$ x $1\frac{3}{4}$	8.920
5	14.880	2	10.200
6	17.850	$2\frac{1}{4}$	11.470
1 x $1\frac{1}{8}$	3.820	$2\frac{1}{2}$	12.750
$1\frac{1}{4}$	4.250	3	15.300
$1\frac{1}{2}$	5.100	$3\frac{1}{2}$	17.850

# FLAT BAR CONTINUED

## HOT ROLLED, COLD FINISHED, CARBON AND ALLOY

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

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1½ x 4	20.400	2¼ x 2½	19.130
4½	22.950	4	30.600
5	25.500	4½	34.430
6	30.600	5	38.250
8	40.800	2½ x 3	25.500
10	51.000	3½	29.750
12	61.200	4	34.000
1¾ x 2	11.900	4½	38.250
2¼	13.390	5	42.500
2½	14.880	6	51.000
2¾	16.360	8	68.000
3	17.850	3 x 3½	35.700
3½	20.830	4	40.800
4	23.800	4½	45.900
5½	32.730	5	51.000
6	35.700	6	61.200
8	47.600		
2 x 2¼	15.300		
2½	17.000		
3	20.400		
3½	23.800		
4	27.200		
4½	30.600		
5	34.000		
6	40.800		
8	54.400		
10	68.000		
12	81.600		

## SQUARE BARS

HOT ROLLED,  
COLD FINISHED, CARBON  
STOCK LENGTHS: 12' R/L, 20' R/L

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1/8	.053	1 <sup>3</sup> / <sub>16</sub>	4.795
3/16	.120	1 <sup>1</sup> / <sub>4</sub>	5.313
1/4	.213	1 <sup>3</sup> / <sub>8</sub>	6.430
5/16	.332	1 <sup>1</sup> / <sub>2</sub>	7.650
3/8	.478	1 <sup>3</sup> / <sub>4</sub>	10.410
7/16	.652	2	13.600
1/2	.850	2 <sup>1</sup> / <sub>4</sub>	17.210
9/16	1.080	2 <sup>1</sup> / <sub>2</sub>	21.250
5/8	1.330	2 <sup>3</sup> / <sub>4</sub>	25.710
1 <sup>1</sup> / <sub>16</sub>	1.610	3	30.600
3/4	1.913	3 <sup>1</sup> / <sub>2</sub>	41.650
13/16	2.240	4	54.400
7/8	2.603	5	85.000
15/16	2.990	5 <sup>1</sup> / <sub>2</sub>	102.90
1	3.400	6	122.40
1 <sup>1</sup> / <sub>8</sub>	4.303		

## ROUND BARS

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

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

# ROUND BARS CONTINUED

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1 <sup>3</sup> / <sub>16</sub>	3.770	3 <sup>5</sup> / <sub>8</sub>	35.090
1 <sup>1</sup> / <sub>4</sub>	4.170	3 <sup>11</sup> / <sub>16</sub>	36.310
1 <sup>5</sup> / <sub>16</sub>	4.600	3 <sup>3</sup> / <sub>4</sub>	37.550
1 <sup>3</sup> / <sub>8</sub>	5.050	3 <sup>7</sup> / <sub>8</sub>	40.100
1 <sup>7</sup> / <sub>16</sub>	5.520	3 <sup>15</sup> / <sub>16</sub>	41.400
1 <sup>1</sup> / <sub>2</sub>	6.010	4	42.730
1 <sup>5</sup> / <sub>8</sub>	7.050	4 <sup>3</sup> / <sub>16</sub>	46.830
1 <sup>11</sup> / <sub>16</sub>	7.600	4 <sup>1</sup> / <sub>4</sub>	48.230
1 <sup>3</sup> / <sub>4</sub>	8.180	4 <sup>7</sup> / <sub>16</sub>	52.580
1 <sup>13</sup> / <sub>16</sub>	8.770	4 <sup>1</sup> / <sub>2</sub>	54.080
1 <sup>7</sup> / <sub>8</sub>	9.390	4 <sup>3</sup> / <sub>4</sub>	60.250
1 <sup>15</sup> / <sub>16</sub>	10.020	4 <sup>15</sup> / <sub>16</sub>	65.100
2	10.680	5	66.760
2 <sup>1</sup> / <sub>16</sub>	11.360	5 <sup>1</sup> / <sub>4</sub>	73.600
2 <sup>1</sup> / <sub>8</sub>	12.060	5 <sup>7</sup> / <sub>16</sub>	78.950
2 <sup>3</sup> / <sub>16</sub>	12.780	5 <sup>1</sup> / <sub>2</sub>	80.780
2 <sup>1</sup> / <sub>4</sub>	13.520	5 <sup>3</sup> / <sub>4</sub>	88.290
2 <sup>5</sup> / <sub>16</sub>	14.280	5 <sup>15</sup> / <sub>16</sub>	94.140
2 <sup>3</sup> / <sub>8</sub>	15.060	6	96.130
2 <sup>7</sup> / <sub>16</sub>	15.870	6 <sup>1</sup> / <sub>4</sub>	104.31
2 <sup>1</sup> / <sub>2</sub>	16.690	6 <sup>3</sup> / <sub>8</sub>	108.52
2 <sup>9</sup> / <sub>16</sub>	17.530	6 <sup>1</sup> / <sub>2</sub>	112.80
2 <sup>5</sup> / <sub>8</sub>	18.400	6 <sup>5</sup> / <sub>8</sub>	117.20
2 <sup>11</sup> / <sub>16</sub>	19.290	6 <sup>3</sup> / <sub>4</sub>	121.67
2 <sup>3</sup> / <sub>4</sub>	20.200	7	130.80
2 <sup>7</sup> / <sub>8</sub>	22.070	7 <sup>1</sup> / <sub>4</sub>	140.40
2 <sup>15</sup> / <sub>16</sub>	23.040	7 <sup>1</sup> / <sub>2</sub>	150.20
3	24.030	8	170.90
3 <sup>1</sup> / <sub>8</sub>	26.080	8 <sup>1</sup> / <sub>2</sub>	192.90
3 <sup>3</sup> / <sub>16</sub>	27.130	9	216.30
3 <sup>1</sup> / <sub>4</sub>	28.210	9 <sup>1</sup> / <sub>4</sub>	228.48
3 <sup>5</sup> / <sub>16</sub>	29.300	9 <sup>1</sup> / <sub>2</sub>	241.00
3 <sup>3</sup> / <sub>8</sub>	30.420	10	267.00
3 <sup>7</sup> / <sub>16</sub>	31.550	11	323.07
3 <sup>1</sup> / <sub>2</sub>	32.710	12	384.50
3 <sup>9</sup> / <sub>16</sub>	33.890		

# REINFORCING BARS

**STOCK LENGTHS: 20'**

No.	Size in Inches	Weight Per Foot
3	$\frac{3}{8}$	.376
4	$\frac{1}{2}$	.668
5	$\frac{5}{8}$	1.043
6	$\frac{3}{4}$	1.502
7	$\frac{7}{8}$	2.044
8	1	2.670

# HEXAGON BARS

**HOT ROLLED, COLD FINISHED, AND CARBON**  
**STOCK LENGTHS: 12'**

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
$\frac{1}{8}$	.046	$1\frac{1}{8}$	3.730
$\frac{5}{16}$	.288	$1\frac{1}{4}$	4.600
$\frac{3}{8}$	.414	$1\frac{3}{8}$	5.570
$\frac{7}{16}$	.564	$1\frac{7}{16}$	6.085
$\frac{1}{2}$	.736	$1\frac{1}{2}$	6.630
$\frac{9}{16}$	.932	$1\frac{5}{8}$	7.780
$\frac{5}{8}$	1.150	$1\frac{3}{4}$	9.020
$1\frac{1}{16}$	1.390	$1\frac{13}{16}$	9.673
$\frac{3}{4}$	1.660	$1\frac{7}{8}$	10.350
$\frac{7}{8}$	2.250	2	11.780
$1\frac{5}{16}$	2.588	$2\frac{1}{4}$	14.910
1	2.940	$2\frac{1}{2}$	18.400
$1\frac{1}{16}$	3.320	3	26.500

## **COATED SHEETS (COILS)**

### **GALVANIZED (G-90), GALVANNEALED**

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

## **ALUMINIZED (TYPE I)**

<b>Thickness (Minimum)</b>		
<b>Gauge</b>	<b>Decimal Inches</b>	<b>Est. Weight Per Sq. Ft. (Nominal)</b>
16	.058	2.613
18	.047	2.113
20	.036	1.613

## **HOT ROLLED SHEETS (COILS)**

### **COMMERCIAL QUALITY, DRY**

<b>Thickness (Minimum)</b>		
<b>Gauge</b>	<b>Decimal Inches</b>	<b>Est. Weight Per Sq. Ft.</b>
10	.1271	5.625
11	.1116	5.000
12	.0972	4.375
14	.0710	3.125
16	.0550	2.500

# COLD ROLLED SHEETS (COILS)

## COMMERCIAL QUALITY, OILED

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

# PLATES

## MILD STEEL, ABRASION RESISTING, T-1 AND COR-TEN

Thickness	Weight Per Sq. Ft.	Thickness	Weight Per Sq. Ft.
3/16"	7.66	2"	81.68
1/4"	10.21	2 1/4"	91.89
5/16"	12.76	2 1/2"	102.10
3/8"	15.32	2 3/4"	112.30
7/16"	17.87	3"	122.52
1/2"	20.42	3 1/4"	132.73
9/16"	22.97	3 1/2"	142.93
5/8"	25.52	3 3/4"	153.14
3/4"	30.63	4"	163.35
7/8"	35.74	4 1/4"	173.56
1"	40.84	4 1/2"	183.77
1 1/8"	45.95	5"	204.19
1 1/4"	51.05	6"	245.03
1 3/8"	56.16	7"	285.87
1 1/2"	61.26	8"	326.71
1 5/8"	66.37	10"	408.38
1 3/4"	71.47		

## FLOOR PLATE

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### 4-WAY—MEDIUM PATTERN

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Gauge Thickness	Weight Per Sq. Ft.
$\frac{3}{16}$	8.71
$\frac{1}{4}$	11.26
$\frac{5}{16}$	13.81
$\frac{3}{8}$	16.37
$\frac{1}{2}$	21.47
$\frac{3}{4}$	31.69

## FLOOR SHEET

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### 4-WAY—MEDIUM PATTERN

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



# ROUND TUBING

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

# ROUND TUBING CONTINUED

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

# ROUND TUBING CONTINUED

Size O.D.	Average Wall		Nominal I.D.	Weight Per Foot
	B.W. Ga.	Dec. Inches		
2"	18	.049	1.902	1.0210
	16	.065	1.870	1.3430
	14	.083	1.834	1.6990
	13	.095	1.810	1.9330
	11	.120	1.760	2.4090
	<sup>5</sup> / <sub>32</sub>	.156	1.687	3.0720
	7	.180	1.640	3.4990
2 <sup>1</sup> / <sub>8</sub> "	18	.049	2.027	1.0860
2 <sup>1</sup> / <sub>4</sub> "	18	.049	2.152	1.1520
	16	.065	2.120	1.5170
	14	.083	2.084	1.9210
	11	.120	2.010	2.7300
	7	.180	1.875	3.9790
2 <sup>3</sup> / <sub>8</sub> "	14	.083	2.209	2.0320
	<sup>5</sup> / <sub>32</sub>	.156	2.062	3.6970
	7	.180	2.015	4.2200
2 <sup>1</sup> / <sub>2</sub> "	18	.049	2.402	1.2830
	16	.065	2.370	1.6900
	14	.083	2.334	2.1430
	11	.120	2.260	3.050
	7	.180	2.140	4.460
2 <sup>3</sup> / <sub>4</sub> "	16	.065	2.620	1.864
	14	.083	2.584	2.364
	13	.095	2.560	2.694
	11	.120	2.510	3.371
3"	18	.049	2.902	1.544
	16	.065	2.870	2.037
	14	.083	2.834	2.586
	13	.085	2.810	2.947
	11	.120	2.760	3.691
	7	.180	2.640	5.421
	<sup>1</sup> / <sub>4</sub>	.250	2.500	7.343

# ROUND TUBING CONTINUED

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

# SQUARE & RECTANGULAR TUBING

## STEEL TUBING

*20' to 24' Random Lengths*

Size in Inches	BWG Wall Thickness	Weight Per Foot
1/2 x 1/2	16	.385
	14	.471
5/8 x 5/8	16	.495
	14	.612
3/4 x 3/4	18	.467
	16	.605
	14	.753
1 x 1/2	16	.606
1 x 1	18	.634
	16	.827
	15	.920
	14	1.035
	12	1.320
1 1/4 x 1 1/4	11	1.436
	18	.800
	16	1.047
	14	1.317
	12	1.691
1 1/2 x 1/2	11	1.844
	18	.634
	16	.826
1 1/2 x 3/4	14	1.035
	18	.717
	16	.930
1 1/2 x 1	14	1.176
	11	1.640
	18	.800
	16	1.047
1 1/2 x 1 1/2	14	1.317
	11	1.844
	18	.967
	16	1.268
	14	1.599
1 5/8 x 1 5/8	12	2.062
	11	2.252
	11	2.456

# SQUARE & RECTANGULAR TUBING CONTINUED

Size in Inches	BWG Wall Thickness	Weight Per Foot
1 <sup>3</sup> / <sub>4</sub> X 1 <sup>3</sup> / <sub>4</sub>	16	1.489
	14	1.881
	11	2.660
2 X 1	18	.967
	16	1.268
	14	1.600
2 X 1 <sup>1</sup> / <sub>2</sub>	11	2.252
	18	1.134
	16	1.489
2 X 2	14	1.882
	11	2.660
	18	1.300
2 <sup>1</sup> / <sub>2</sub> X 1	16	1.710
	14	2.164
	11	3.067
2 <sup>1</sup> / <sub>2</sub> X 1 <sup>1</sup> / <sub>2</sub>	16	1.489
	14	1.881
	11	2.660
2 <sup>1</sup> / <sub>2</sub> X 2 <sup>1</sup> / <sub>2</sub>	16	1.710
	14	2.164
	11	3.067
3 X 1	16	2.152
	14	2.699
	11	3.900
3 X 1 <sup>1</sup> / <sub>2</sub>	16	1.710
	14	2.164
	11	3.067
3 X 2	16	1.931
	14	2.445
	11	3.475
3 X 3	16	2.152
	14	2.728
	12	3.544
3 <sup>1</sup> / <sub>2</sub> X 3 <sup>1</sup> / <sub>2</sub>	16	2.594
	14	3.292
4 X 2	14	3.856
	16	2.594
4 X 3	14	3.292
	14	3.860
4 X 4	14	4.421

# SQUARE HOLLOW STRUCTURAL TUBING

## STEEL TUBING

Stock Lengths of 20, 24, and 40 ft.

Size in Inches	Weight Per Foot	Size in Inches	Weight Per Foot
1 <sup>1</sup> / <sub>4</sub> x <sup>3</sup> / <sub>16</sub>	2.62	6 x <sup>3</sup> / <sub>8</sub>	27.48
1 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>16</sub>	3.22	<sup>1</sup> / <sub>2</sub>	35.24
<sup>1</sup> / <sub>4</sub>	4.11	7 x <sup>3</sup> / <sub>16</sub>	17.08
2 x <sup>1</sup> / <sub>8</sub>	3.05	<sup>1</sup> / <sub>4</sub>	22.42
<sup>3</sup> / <sub>16</sub>	4.32	7 x <sup>5</sup> / <sub>16</sub>	27.59
<sup>1</sup> / <sub>4</sub>	5.41	<sup>3</sup> / <sub>8</sub>	32.58
2 <sup>1</sup> / <sub>4</sub> x <sup>1</sup> / <sub>4</sub>	7.01	<sup>1</sup> / <sub>2</sub>	42.05
2 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>8</sub>	3.88	8 x <sup>3</sup> / <sub>16</sub>	19.63
<sup>3</sup> / <sub>16</sub>	5.59	<sup>1</sup> / <sub>4</sub>	25.82
<sup>1</sup> / <sub>4</sub>	7.11	<sup>5</sup> / <sub>16</sub>	31.84
3 x <sup>1</sup> / <sub>8</sub>	4.75	<sup>3</sup> / <sub>8</sub>	37.69
<sup>3</sup> / <sub>16</sub>	6.87	<sup>1</sup> / <sub>2</sub>	48.85
<sup>1</sup> / <sub>4</sub>	8.81	<sup>5</sup> / <sub>8</sub>	59.32
<sup>5</sup> / <sub>16</sub>	10.58	10 x <sup>3</sup> / <sub>16</sub>	24.73
<sup>3</sup> / <sub>8</sub>	12.34	<sup>1</sup> / <sub>4</sub>	32.63
3 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>8</sub>	5.61	<sup>5</sup> / <sub>16</sub>	40.35
<sup>3</sup> / <sub>16</sub>	8.15	<sup>3</sup> / <sub>8</sub>	47.90
<sup>1</sup> / <sub>4</sub>	10.51	<sup>1</sup> / <sub>2</sub>	62.46
4 x <sup>1</sup> / <sub>8</sub>	6.46	<sup>5</sup> / <sub>8</sub>	76.33
<sup>3</sup> / <sub>16</sub>	9.42	12 x <sup>1</sup> / <sub>4</sub>	39.43
<sup>1</sup> / <sub>4</sub>	12.21	<sup>5</sup> / <sub>16</sub>	48.86
<sup>5</sup> / <sub>16</sub>	14.38	<sup>3</sup> / <sub>8</sub>	58.10
<sup>3</sup> / <sub>8</sub>	17.27	<sup>1</sup> / <sub>2</sub>	76.07
<sup>1</sup> / <sub>2</sub>	21.63	<sup>5</sup> / <sub>8</sub>	93.34
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>4</sub>	13.72	14 x <sup>5</sup> / <sub>16</sub>	57.36
5 x <sup>3</sup> / <sub>16</sub>	11.97	<sup>3</sup> / <sub>8</sub>	68.31
<sup>1</sup> / <sub>4</sub>	15.62	<sup>1</sup> / <sub>2</sub>	89.68
<sup>5</sup> / <sub>16</sub>	19.08	<sup>5</sup> / <sub>8</sub>	110.36
5 x <sup>3</sup> / <sub>8</sub>	22.37	16 x <sup>5</sup> / <sub>16</sub>	65.87
<sup>1</sup> / <sub>2</sub>	28.43	<sup>3</sup> / <sub>8</sub>	78.52
6 x <sup>3</sup> / <sub>16</sub>	14.53	<sup>1</sup> / <sub>2</sub>	103.30
<sup>1</sup> / <sub>4</sub>	19.02	<sup>5</sup> / <sub>8</sub>	127.37
<sup>5</sup> / <sub>16</sub>	23.34		

# RECTANGULAR HOLLOW STRUCTURAL TUBING

## STEEL TUBING

*Stock Lengths of 20, 24 and 40 ft.*

Size Inches	Weight Per Ft.
2 x 1½ x 3/16	4.32
3 x 1½ x 3/16	4.94
3 x 2 x 1/8	3.90
3/16	5.59
1/4	7.11
4 x 2 x 1/8	4.75
3/16	6.87
1/4	8.81
4 x 3 x 1/8	5.61
3/16	8.15
1/4	10.51
5 x 2 x 1/8	5.61
3/16	8.15
1/4	10.51
5 x 2½ x 3/16	8.75
5 x 3 x 1/8	6.46
3/16	9.42
1/4	12.21
3/8	17.27
6 x 2 x 1/8	6.46
3/16	9.42
1/4	12.21
6 x 3 x 1/8	7.31
3/16	10.70
1/4	13.91
3/8	19.82
6 x 4 x 3/16	11.97
1/4	15.62
5/16	19.08
3/8	22.37
1/2	28.43
7 x 4 x 5/16	21.21
3/8	24.93
7 x 5 x 1/4	19.02
3/8	27.48
1/2	35.24
8 x 2 x 3/16	11.97
1/4	15.62



# RECTANGULAR HOLLOW STRUCTURAL TUBING CONTINUED

## STEEL TUBING

*Stock Lengths of 20, 24 and 40 ft.*

	Size Inches	Weight Per Ft.
8 x	3 x $\frac{3}{16}$	13.25
	$\frac{1}{4}$	17.32
8 x	4 x $\frac{3}{16}$	14.53
	$\frac{1}{4}$	19.02
	$\frac{5}{16}$	23.34
	$\frac{3}{8}$	27.48
	$\frac{1}{2}$	35.24
8 x	6 x $\frac{3}{16}$	17.08
	$\frac{1}{4}$	22.42
	$\frac{5}{16}$	27.59
	$\frac{3}{8}$	32.58
	$\frac{1}{2}$	42.05
10 x	2 x $\frac{1}{4}$	19.02
	$\frac{3}{8}$	27.48
10 x	3 x $\frac{1}{4}$	20.72
	$\frac{5}{16}$	25.47
10 x	4 x $\frac{3}{16}$	17.08
	$\frac{1}{4}$	22.42
	$\frac{5}{16}$	27.59
	$\frac{3}{8}$	32.58
	$\frac{1}{2}$	42.05
10 x	5 x $\frac{1}{4}$	24.12
	$\frac{5}{16}$	29.72
10 x	6 x $\frac{1}{4}$	25.82
	$\frac{3}{8}$	37.69
	$\frac{1}{2}$	48.85
10 x	8 x $\frac{1}{4}$	29.23
	$\frac{3}{8}$	42.79
	$\frac{1}{2}$	55.66
12 x	2 x $\frac{3}{16}$	17.08
	$\frac{1}{4}$	22.42
12 x	3 x $\frac{1}{4}$	24.12
12 x	4 x $\frac{3}{16}$	19.63
	$\frac{1}{4}$	25.82
	$\frac{3}{8}$	37.69
12 x	6 x $\frac{1}{4}$	29.23
	$\frac{3}{8}$	42.79
12 x	8 x $\frac{1}{4}$	32.63
	$\frac{3}{8}$	47.90
	$\frac{1}{2}$	62.46

# RECTANGULAR HOLLOW STRUCTURAL TUBING CONTINUED

## STEEL TUBING

*Stock Lengths of 20, 24 and 40 ft.*

Size Inches		Weight Per Ft.
12 x	8 x $\frac{5}{8}$	76.33
14 x	4 x $\frac{1}{4}$	29.23
	$\frac{5}{16}$	36.10
	$\frac{3}{8}$	42.79
14 x	$\frac{1}{2}$	55.66
	6 x $\frac{1}{4}$	32.63
	$\frac{5}{16}$	40.35
	$\frac{3}{8}$	47.90
14 x	$\frac{1}{2}$	62.46
	10 x $\frac{5}{16}$	48.86
	$\frac{3}{8}$	58.10
16 x	$\frac{1}{2}$	76.07
	4 x $\frac{5}{16}$	40.35
	$\frac{3}{8}$	47.90
16 x	$\frac{1}{2}$	62.46
	8 x $\frac{5}{16}$	48.86
	$\frac{3}{8}$	58.10
	$\frac{1}{2}$	76.07
16 x	$\frac{5}{8}$	93.34
	12 x $\frac{5}{16}$	57.36
	$\frac{3}{8}$	68.31
	$\frac{1}{2}$	89.68
18 x	$\frac{5}{8}$	110.36
	6 x $\frac{1}{4}$	39.43
	$\frac{5}{16}$	48.86
	$\frac{3}{8}$	58.10
20 x	$\frac{1}{2}$	76.07
	$\frac{5}{8}$	93.34
	4 x $\frac{5}{16}$	48.86
	$\frac{3}{8}$	58.10
20 x	$\frac{1}{2}$	76.07
	8 x $\frac{5}{16}$	57.36
	$\frac{3}{8}$	68.31
	$\frac{1}{2}$	89.68
20 x	$\frac{5}{8}$	110.36
	12 x $\frac{5}{16}$	65.87
	$\frac{3}{8}$	78.52
	$\frac{1}{2}$	103.30
	$\frac{5}{8}$	127.37

# PIPE

## WEIGHTS AND DIMENSIONS OF SEAMLESS AND WELDED PIPE

A.S.A. Pipe Schedules

PIPE SIZE	O.D. in inches	5	10	20	30	40	STD	60	80	E.H.	100	120	140	160	Dbl E.H.
1/8	.405	.035 1.383	.049 1.863			.068 2.447	.088 2.447		.095 .3145	.095 .3145					
1/4	.540	.049 2.570	.065 3.297			.088 4.248	.088 4.248		.119 .5351	.119 .5351					
3/8	.675	.049 3.276	.065 4.235			.091 5.676	.091 5.676		.126 .7388	.126 .7388					
1/2	.840	.065 5.383	.083 6.710			.109 8.510	.109 8.510		.147 1.088	.147 1.088				.187 1.304	.294 1.714
3/4	1.050	.065 6.838	.083 8.572			.113 1.131	.113 1.131		.154 1.474	.154 1.474				.218 1.937	.308 2.441
1	1.315	.065 8.678	.109 1.404			.133 1.679	.133 1.679		.179 2.172	.179 2.172				.250 2.844	.358 3.659
1 1/8	1.660	.065 1.107	.109 1.806			.140 2.273	.140 2.273		.191 2.997	.191 2.997				.250 3.765	.382 5.214
1 1/2	1.900	.065 1.274	.109 2.085			.145 2.718	.145 2.718		.200 3.631	.200 3.631				.281 4.859	.400 6.408
2	2.375	.065 1.604	.109 2.638			.154 3.653	.154 3.653		.218 5.022	.218 5.022				.343 7.444	.436 9.029
2 1/2	2.875	.083 2.475	.120 3.531			.203 5.793	.203 5.793		.276 7.661	.276 7.661				.375 10.01	.552 13.70
3	3.500	.083 3.029	.120 4.332			.216 7.576	.216 7.576		.300 10.25	.300 10.25				.437 14.32	.600 18.58
3 1/2	4.000	.083 3.472	.120 4.973			.226 9.109	.226 9.109		.318 12.51	.318 12.51					.636 22.85
4	4.500	.083 3.915	.120 5.613			.237 10.79	.237 10.79		.281 12.66	.281 12.66				.531 22.51	.674 27.54
4 1/2	5.000														.710 32.53
5	5.563	.109 6.349	.134 7.770			.258 14.62	.258 14.62		.375 20.78	.375 20.78				.625 32.96	.750 38.55
6	6.625	.109 7.585	.134 9.289			.280 18.97	.280 18.97		.432 28.57	.432 28.57				.718 45.30	.864 53.16

# PIPE CONTINUED

PIPE SIZE	O.D. in inches	5	10	20	30	40	STD	60	80	E.H.	100	120	140	160	Dbl E.H.
7	7.625						.301 23.57			.500 38.05					.875 63.08
8	8.625	.109 9.914	.148 13.40	.250 22.36	.277 24.70	.322 28.55	.322 28.55	.406 35.64	.500 43.39	.500 43.39	.593 50.87	.718 60.93	.812 67.76	.906 74.89	.875 72.42
9	9.625						.342 33.90			.500 48.72					
10	10.750	.134 15.19	.165 18.70	.250 28.04	.307 34.24	.365 40.48	.365 40.48	.500 54.74	.593 64.33	.500 54.74	.718 76.93	.843 89.20	1.000 104.1	1.125 115.7	
11	11.750						.375 45.55			.500 60.07					
12	12.750	.165 22.18	.180 24.20	.250 33.38	.330 43.77	.406 53.53	.375 49.56	.562 73.16	.687 88.51	.500 65.42	.843 107.2	1.000 125.5	1.125 139.7	1.312 160.3	
14	14.000		.250 36.71	.312 45.68	.375 54.57	.437 63.37	.375 84.91	.593 84.91	.750 106.1	.500 72.09	.937 130.7	1.093 150.7	1.250 170.2	1.406 189.1	
16	16.000		.250 42.05	.312 52.36	.375 62.58	.500 82.77	.375 62.58	.656 107.5	.843 136.5	.500 82.77	1.031 164.8	1.218 192.3	1.437 223.5	1.593 245.1	
18	18.000		.250 47.39	.312 59.03	.437 82.06	.562 104.6	.375 70.59	.750 138.2	.937 170.8	.500 93.45	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	
20	20.000		.250 52.73	.375 78.60	.500 104.1	.593 122.9	.375 78.60	.812 166.4	1.031 208.9	.500 104.1	1.280 256.1	1.500 296.4	1.750 341.1	1.968 379.0	
24	24.000		.250 63.41	.375 94.62	.562 140.8	.687 171.2	.375 94.62	.968 238.1	1.218 296.4	.500 125.5	1.531 367.4	1.812 429.4	2.062 483.1	2.343 541.9	

## BAR GRATING – TYPE 19W4

Bearing Bar, Inches	Wt. Sq. Ft.	Bearing Bar, Inches	Wt. Sq. Ft.
		Steel	
3/4 x 3/16	5.5	1 1/2 x 3/16	10.3
1 x 1/8	4.9	1 1/2 x 1/4	13.5
1 x 3/16	7.1	1 3/4 x 3/16	12.1
1 1/4 x 1/8	6.0	2 x 3/16	13.8
1 1/4 x 3/16	8.7	2 1/4 x 3/16	14.8
1 1/4 x 1/4	11.4	2 1/2 x 3/16	17.0
1 1/2 x 1/8	7.1		
		Aluminum	
3/16 x 1	2.65		
3/16 x 1 1/4	3.25		

## FIBERGLASS GRATING – FIBERGRATE MOLDED

Thickness	Mesh	Wt. Per Sq. Ft.
1"	1" x 4" rec.	2.5 lbs.
1"	1 1/2" sq.	2.5 lbs.
1 1/2"	1 1/2" sq.	3.73 lbs.
2"	2" sq.	4.0 lbs.

## PULTRUDED

Panel Thickness	Load Bar Spacing	Wt. Per Sq. Ft.
1"	1"	3.41 lbs.
1"	1 1/2"	2.35 lbs.
1 1/2"	1"	4.13 lbs.
1 1/2"	1 1/2"	2.83 lbs.
2"	1 1/2"	4.0 lbs.
2"	2"	3.1 lbs.

## BAR GRATING STAIR TREADS CHECKER PLATE NOSING

Bearing Bars	Width/Depth	Wt./Each
1 x 3/16	8 9/16 x 2'6"	17.98
1 x 3/16	9 3/4 x 2'6"	18.80
1 x 3/16	9 3/4 x 2'6"	Serr. 18.80
1 x 3/16	9 3/4 x 2'6"	Galv. 18.80
1 x 3/16	9 3/4 x 3'0"	22.00
1 x 3/16	9 3/4 x 3'0"	Serr. 22.00
1 x 3/16	10 15/16 x 2'6"	20.50
1 x 3/16	10 15/16 x 2'6"	Galv. 20.50
1 x 3/16	10 15/16 x 3'0"	24.00
1 1/4 x 3/16	9 3/4 x 2'6"	21.70
1 1/4 x 3/16	9 3/4 x 3'0"	25.40
1 1/4 x 3/16	10 15/16 x 2'6"	23.70
1 1/4 x 3/16	10 15/16 x 3'0"	27.90

# REGULAR EXPANDED METAL (CARBON STEEL)

Style	Weight in lbs. per c.s.f.		Standard Sizes in Feet		Size of Openings in Inches		Center to Center of Bond In Inches		Size of Strands in Inches		Percent Open Area	Overall Thickness in Inches
	Plain	Galv.	Width	Length	Width	Length	Width	Length	Width	Thickness		
3/16" #24	50				.166	.437	.200	.50	.050	.024	63	.086
3/16" #22	62				.166	.437	.200	.50	.050	.030	60	.088
3/16" #20	75				.166	.437	.200	.50	.050	.036	57	.090
1/4" #20	86	129	4	8	.172	.719	.255	1.00	.073	.036	45	.125
1/4" #18	114	171	4	8	.172	.719	.255	1.00	.073	.048	43	.125
1/2" #20	43	59	4	8	.438	.938	.500	1.20	.072	.036	80	.124
1/2" #18	70	85	4-6	8-10	.438	.938	.500	1.20	.088	.045	77	.155
1/2" #16	86	97	4-6	8-10	.375	.938	.500	1.20	.086	.060	71	.157
1/2" #13	147	173	4-6	8-10	.313	.938	.500	1.20	.096	.092	58	.182
3/4" #16	54	65	4-6	8-10	.813	1.750	.923	2.00	.099	.060	85	.186
3/4" #13	80	92	4-6	8-10	.750	1.688	.923	2.00	.096	.092	78	.195
3/4" #10	120	136	4-6	8-10	.750	1.625	.923	2.00	.144	.092	77	.282
3/4" # 9	180	195	4-6	8-10-12	.688	1.563	.923	2.00	.148	.134	66	.300
1" #16	44	51	4	8	1.000	2.063	1.090	2.40	.096	.060	86	.182
1 1/2" #18	20	25	4	8	1.313	2.625	1.330	3.00	.067	.048	93	.140
1 1/2" #16	40	48	4	8-10-12	1.250	2.625	1.330	3.00	.107	.060	89	.211
1 1/2" #13	60	68	4-6	8-10-12	1.188	2.500	1.330	3.00	.104	.092	86	.215
1 1/2" #10	79	89	4-6	8-10	1.188	2.500	1.330	3.00	.137	.082	85	.289
1 1/2" # 9	120	131	4-6	8-10-12	1.125	2.375	1.330	3.00	.142	.134	75	.295
1 1/2" # 6	250	273	4-6	8-10-12	1.000	2.313	1.330	3.00	.201	.198	63	.425
2" #10	68	75			1.625	3.438	1.850	4.00	.164	.092	86	.312
2" # 9	90	102			1.563	3.375	1.850	4.00	.149	.134	86	.325

# FLATTENED EXPANDED METAL (CARBON STEEL)

Style	Weight in lbs. per c.s.f.		Standard Sizes in Feet		Size of Openings in Inches		Center to Center of Bond in Inches		Size of Strands in Inches		Percent Open Area	Overall Thickness in Inches
	Plain	Galv.	Width	Length	Width	Length	Width	Length	Width	Thickness		
3/16" #24	48				.085	.459	.200	.52	.057	.019	41	.019
3/16" #22	60				.085	.459	.200	.52	.057	.024	40	.024
3/16" #20	72				.085	.459	.200	.52	.057	.029	39	.029
1/4" #20	83	124	4	8	.094	.688	.255	1.03	.086	.0360	47	.030
1/4" #18	111	165	4	8	.094	.688	.255	1.03	.086	.040	40	.040
1/2" #20	40	51	4	8	.375	1.000	.500	1.26	.070	.029	72	.029
1/2" #18	66	88	3-4-6	8-10	.281	1.000	.500	1.26	.109	.039	69	.039
1/2" #16	82	100	3-4-6	8-10	.250	1.000	.500	1.26	.103	.050	60	.050
1/2" #13	140	162	3-4-6	8-10	.250	1.000	.500	1.26	.122	.070	57	.070
3/4" #16	51	61	3-4-6	8-10	.750	1.750	.923	2.10	.115	.048	75	.048
3/4" #14	63	75	3-4-6	8-10	.688	1.813	.923	2.12	.119	.061	70	.061
3/4" #13	75	86	3-4-6	8-10	.688	1.782	.923	2.10	.119	.070	73	.070
3/4" #9	171	186	3-4-6	8-10-12	.563	1.688	.923	2.12	.164	.120	63	.120
1" #16	41	50	4	8	.875	2.230	1.090	2.56	.115	.048	77	.048
1 1/2" #16	38	44	4	8	1.063	2.750	1.330	3.20	.123	.048	82	.048
1 1/2" #14	46	56	3-4-6	8	1.063	2.750	1.330	3.20	.138	.060	82	.060
1 1/2" #13	57	68	3-4-6	8	1.063	2.750	1.330	3.20	.138	.070	80	.070
1 1/2" #9	111	128	3-4-6	8-10-12	1.000	2.563	1.330	3.20	.175	.110	77	.110

# EXPANDED METAL GRATING (CARBON STEEL)

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

Above conforms with Military Specifications MIL-M-17194C (Metals Expanded Steel) and MYL-G 18015 (ships) (grating) and the deflection requirements of Federal Specifications RR-G-651-B.



# GRIP STRUT SAFETY GRATING

## 10' and 12' Lengths

Gauge	Width Inches	Channel Size Inches	Wt. Per Lineal Ft.
14	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2.30
14	7	1 <sup>1</sup> / <sub>2</sub>	3.00
14	7	2	3.20
14	9 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	3.60
14	9 <sup>1</sup> / <sub>2</sub>	2	3.80
14	11 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4.20
14	11 <sup>3</sup> / <sub>4</sub>	2	4.40
14	18 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	6.10
14	18 <sup>3</sup> / <sub>4</sub>	2	6.30
14	24	2	7.40
12	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	3.20
12	4 <sup>3</sup> / <sub>4</sub>	2	3.60
12	7	1 <sup>1</sup> / <sub>2</sub>	4.10
12	7	2	4.50
12	9 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	5.00
12	9 <sup>1</sup> / <sub>2</sub>	2	5.40
12	11 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	5.90
12	11 <sup>3</sup> / <sub>4</sub>	2	6.20
12	11 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	6.60
12	11 <sup>3</sup> / <sub>4</sub>	3	7.00
12	18 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	8.50
12	18 <sup>3</sup> / <sub>4</sub>	2	8.90
12	18 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	8.93
.080 Alum.	7	2	1.20
.080 Alum.	9 <sup>1</sup> / <sub>2</sub>	2	1.40
.080 Alum.	11 <sup>3</sup> / <sub>4</sub>	2	1.60
.080 Alum.	18 <sup>3</sup> / <sub>4</sub>	2	2.31

## GRIP STRUT TREADS

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*From Stock*

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Gauge	Width Inches	Channel Size Inches	Length Inches	Wt. Per Lineal Ft.
14	9 $\frac{1}{2}$	1 $\frac{1}{2}$	24	4.00
14	9 $\frac{1}{2}$	1 $\frac{1}{2}$	30	4.00
14	9 $\frac{1}{2}$	2	36	4.13

## GRIP STRUT WALKWAY GRATING

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*10' Lengths*

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Gauge	Width Inches	Channel Size Inches	Wt. Per Lineal Ft.
14	24	4 $\frac{1}{2}$	8.90

## OPEN GRIP GRATING

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*10' and 12' Lengths*

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Gauge	Width Inches	Channel Size Inches	Wt. Per Lineal Ft.
13	7	1 $\frac{1}{2}$	3.25
13	10	1 $\frac{1}{2}$	4.02
13	10	2	4.02
13	12	1 $\frac{1}{2}$	4.40
13	12	2	4.40
13	18	1 $\frac{1}{2}$	5.63
13	18	2	5.63

## TREAD GRIP SHEET

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Gauge	Width Inches	Length Inches	Wt. Per Sq. Ft.
13	36	120	3.61
11	36	120	4.81

# NOTES

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