

# Reference Guide





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### DATA

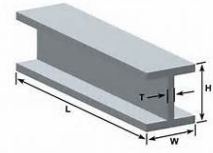
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## Wide Flange Beams

Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
W4 x	13	4 1/8	4	3/8	1/4
W5 x	16	5	5	3/8	1/4
	19	5 1/8	5	7/16	1/4
W6 x	9	5 7/8	4	3/16	3/16
	12	6	4	1/4	1/4
	16	6 1/4	4	3/8	1/4
W6 x	15	6	6	1/4	1/4
	20	6 1/4	6	3/8	1/4
	25	6 3/8	6 1/8	7/16	5/16
W8 x	10	7 7/8	4	3/16	3/16
	13	8	4	1/4	1/4
	15	8 1/8	4	5/16	1/4
W8 x	18	8 1/8	5 1/4	5/16	1/4
	21	8 1/4	5 1/4	3/8	1/4
W8 x	24	7 7/8	6 1/2	3/8	1/4
	28	8	6 1/2	7/16	5/16
W8 x	31	8	8	7/16	5/16
	35	8 1/8	8	1/2	5/16
	40	8 1/4	8 1/8	9/16	3/8
	48	8 1/2	8 1/8	11/16	3/8
	58	8 3/4	8 1/4	13/16	1/2
	67	9	8 1/4	15/16	9/16
W10 x	12	9 7/8	4	3/16	3/16
	15	10	4	1/4	1/4
	17	10 1/8	4	5/16	1/4
	19	10 1/4	4	3/8	1/4
W10 x	22	10 1/8	5 3/4	3/8	1/4
	26	10 3/8	5 3/4	7/16	1/4
	30	10 1/2	5 3/4	1/2	5/16
W10 x	33	9 3/4	8	7/16	5/16
	39	9 7/8	8	1/2	5/16
	45	10 1/8	8	5/8	3/8
W10 x	49	10	10	9/16	5/16
	54	10 1/8	10	5/8	3/8
W10 x	60	10 1/4	10 1/8	11/16	7/16
	68	10 3/8	10 1/8	3/4	1/2
	77	10 5/8	10 1/4	7/8	1/2
W10 x	88	10 7/8	10 1/4	1	5/8
	100	11 1/8	10 3/8	1 1/8	11/16
	112	11 3/8	10 3/8	1 1/4	3/4
W12 x	14	11 7/8	4	1/4	3/16
	16	12	4	1/4	1/4
	19	12 1/8	4	3/8	1/4
	22	12 1/4	4	7/16	1/4
W12 x	26	12 1/4	6 1/2	3/8	1/4
	30	12 3/8	6 1/2	7/16	1/4
	35	12 1/2	6 1/2	1/2	5/16
W12 x	40	12	8	1/2	5/16
	45	12	8	9/16	5/16
	50	12 1/4	8 1/8	5/8	3/8
W12 x	53	12	10	9/16	3/8
	58	12 1/4	10	5/8	3/8

W12 x	65 72	12 1/8 12 1/4	12 12	5/8 11/16	3/8 7/16
<b>Section Number</b>	<b>Weight per Foot in lbs.</b>	<b>Depth of Section in inches</b>	<b>Flange Width in inches</b>	<b>Flange Thickness in inches</b>	<b>Web Thickness in inches</b>
W12 x	79 87 96	12 3/8 12 1/2 12 3/4	12 1/8 12 1/8 12 1/8	3/4 13/16 7/8	1/2 1/2 9/16
W12 x	106 120 136	12 7/8 13 1/8 13 3/8	12 1/4 12 3/8 12 3/8	1 1 1/8 1 1/4	5/8 11/16 13/16
W12 x	152 170 190	13 3/4 14 14 3/8	12 1/2 12 5/8 12 5/8	13/8 19/16 13/4	7/8 15/16 11/16
W14 x	22 26	13 3/4 13 7/8	5 5	5/16 7/16	1/4 1/4
W14 x	30 34 38	13 7/8 14 14 1/8	6 3/4 6 3/4 6 3/4	3/8 7/16 1/2	1/4 5/16 5/16
W14 x	43 48 53	13 5/8 13 3/4 13 7/8	8 8 8	1/2 5/8 11/16	5/16 5/16 3/8
W14 x	61 68 74 82	13 7/8 14 14 1/8 14 1/4	10 10 10 1/8 10 1/8	5/8 3/4 13/16 7/8	3/8 7/16 7/16 1/2
W14X	109 120 132	14 3/8 14 1/2 14 5/8	14 5/8 14 5/8 14 3/4	7/8 15/16 1	1/2 9/16 5/8
W14X	145 159 176 193	14 3/4 15 15 1/4 15 1/2	15 1/2 15 5/8 15 5/8 15 3/4	1 1/16 1 3/16 1 15/16 1 7/16	11/16 3/4 13/16 7/8
W16 x	26 31	15 3/4 15 7/8	5 1/2 5 1/2	3/8 7/16	1/4 1/4
W16x	36 40 45 50 57	15 7/8 16 16 1/8 16 1/4 16 3/8	7 7 7 7 1/8 7 1/8	7/16 1/2 9/16 5/8 11/16	5/16 5/16 3/8 3/8 7/16
W16 x	67 77 89 100	16 3/8 16 1/2 16 3/4 17	10 1/4 10 1/4 10 3/8 10 3/8	11/16 3/4 7/8 1	3/8 7/16 1/2 9/16
W18 x	35 40 46	17 3/4 17 7/8 18	6 6 6	7/16 1/2 5/8	5/16 5/16 3/8
W18 x	50 55 60 65 71	18 18 1/8 18 1/4 18 3/8 18 1/2	7 1/2 7 1/2 7 1/2 7 5/8 7 5/8	9/16 5/8 11/16 3/4 13/16	3/8 3/8 7/16 7/16 1/2
W18 x	76 86 97 106 119	18 1/4 18 3/8 18 5/8 18 3/4 19	11 11 1/8 11 1/8 11 1/4 11 1/4	11/16 3/4 7/8 1 5/16 1 1/16	7/16 1/2 9/16 9/16 5/8

Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
W21 x	44	20 5/8	6 1/2	7/16	3/8
	50	20 7/8	6 1/2	9/16	3/8
	57	21	6 1/2	5/8	3/8
W21 x	62	21	8 1/4	5/8	3/8
	68	21 1/8	8 1/4	11/16	7/16
	73	21 1/4	8 1/4	3/4	7/16
	83	21 3/8	8 3/8	13/16	1/2
	93	21 5/8	8 3/8	15/16	9/16
W21 x	101	21 3/8	12 1/4	13/16	1/2
	111	21 1/2	12 3/8	7/8	9/16
	122	21 5/8	12 3/8	15/16	5/8
	132	21 7/8	12 1/2	11/16	5/8
	147	22	12 1/2	11/8	3/4
W24 x	55	23 5/8	7	1/2	3/8
	62	23 3/4	7	9/16	7/16
W24 x	68	23 3/4	9	9/16	7/16
	76	23 7/8	9	11/16	7/16
	84	24 1/8	9	3/4	1/2
	94	24 1/4	9 1/8	7/8	1/2
W24 x	104	24	12 3/4	3/4	1/2
	117	24 1/4	12 3/4	7/8	9/16
	131	24 1/2	12 7/8	15/16	5/8
	146	24 3/4	12 7/8	11/16	5/8
	162	25	13	11/4	11/16
W27 x	84	26 3/4	10	5/8	7/16
	94	26 7/8	10	3/4	1/2
	102	27 1/8	10	13/16	1/2
	114	27 1/4	10 1/8	15/16	9/16
	146	27 3/8	14	1	5/8
	161	27 5/8	14	11/16	11/16
W30 x	99	29 5/8	10 1/2	11/16	1/2
	108	29 7/8	10 1/2	3/4	9/16
	116	30	10 1/2	7/8	9/16
	124	30 1/8	10 1/2	15/16	9/16
	132	30 1/4	10 1/2	1	5/8
W30 x	173	30 1/2	15	1 1/16	5/8
	191	30 5/8	15	1 13/16	11/16
	211	31	15 1/8	1 5/16	3/4
W33 x	118	32 7/8	11 1/2	3/4	9/16
	130	33 1/8	11 1/2	7/8	9/16
	141	33 1/4	11 1/2	15/16	5/8
	152	33 1/2	11 5/8	11/16	5/8
W33 x	201	33 5/8	15 3/4	1 1/8	11/16
	221	33 7/8	15 3/4	1 1/4	3/4
	241	34 1/8	15 7/8	1 3/8	13/16
W36 x	135	35 1/2	12	13/16	5/8
	150	35 7/8	12	15/16	5/8
	160	36	12	1	5/8
	170	36 1/8	12	1 1/8	11/16
	182	36 3/8	12 1/8	1 3/16	3/4
	194	36 1/2	12 1/8	1 1/4	3/4
	210	36 3/4	12 1/8	1 3/8	13/16
W36 x	230	35 7/8	16 1/2	1 1/4	3/4
	245	36 1/8	16 1/2	1 3/8	13/16
	260	36 1/4	16 1/2	1 7/16	13/16
	280	36 1/2	16 5/8	1 9/16	7/8
	300	36 3/4	16 5/8	1 11/16	15/16



## Junior Beams

	Size in inches	Weight per foot	Flange width in inches	Web thickness in inches
*	6	4.4	1.84	.114
*	8	6.5	2.28	.135
*	10	9.0	2.69	.155
*	12	11.8	3.06	.175

**\*Check on Availability**

## I-Beams

Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
S3 x	5.7	3	2 3/8	1/4	3/16
	7.5	3	2 1/2	1/4	3/8
S4 x	7.7	4	2 5/8	5/16	3/16
	9.5	4	2 3/4	5/16	3/16
S5 x	10	5	3	5/16	3/16
S6 x	12.5	6	3 3/8	3/8	1/4
	17.25	6	3 5/8	3/8	7/16
S8 x	18.4	8	4	1/4	7/16
	23.0	8	4 1/8	7/16	7/16
S10 x	25.4	10	4 5/8	1/2	5/16
	35	10	5	1/2	5/8
S12 x	31.8	12	5	9/16	3/8
	35.0	12	5 1/8	9/16	7/16
S12 x	40.8	12	5 1/4	11/16	7/16
	50.0	12	5 1/2	11/16	11/16
S15 x	42.9	15	5 1/2	5/8	7/16
	50.0	15	5 5/8	5/8	9/16
S18 x	54.7	18	6	11/16	7/16
	70.0	18	6 1/4	11/16	11/16
S20 x	66.0	20	6 1/4	1/2	13/16
	75.0	20	6 3/8	5/8	13/16
S20 x	86.0	20 1/4	7	15/16	11/16
	96.0	20 1/4	7 1/4	15/16	13/16
S24 x	80.0	24	7	7/8	1/2
	90.0	24	7 1/8	7/8	5/8
	100.0	24	7 1/4	7/8	3/4
S24 x	106.0	24 1/2	7 7/8	11/16	5/8
	121.0	24 1/2	8	11/16	13/16

## Bar Angles

Size in inches	Weight per Foot in lbs.
1/2 x 1/2 x 1/8	.38
3/4 x 3/4 x 1/8	.59
1 x 1 x 1/8	.80
3/16	1.16
1/4	1.49
1 1/4 x 1 1/4 x	1.01
1/8	1.48
3/16	1.92
1/4	
1 1/2 x 1 1/2 x	1.23
1/8	1.80
3/16	2.34
1/4	3.35
3/8	
1 3/4 x 1 3/4 x	1.44
1/8	2.12
3/16	2.77
1/4	
2 x 1 1/2 x 1/8	1.44
3/16	2.12
1/4	2.77
2 x 2 x 1/8	1.65
3/16	2.44
1/4	3.19
5/16	3.92
3/8	4.70
2 1/2 x 1 1/2 x	2.44
3/16	3.19
1/4	3.92
5/16	
2 1/2 x 2 x 3/16	2.75
1/4	3.62
5/16	4.50
3/8	5.30
2 1/2 x 2 1/2 x	3.07
3/16	4.10
1/4	5.00
5/16	5.90
3/8	7.70
1/2	



## Structural Angles

Size in inches	Weight per Foot in lbs.
3 x 2 x 3/16	3.1
1/4	4.1
5/16	5.0
3/8	5.9
1/2	7.7
3 x 2 1/2 x 1/4	4.5
5/16	5.6
3/8	6.6
1/2	8.5
3 x 3 x 3/16	3.7
1/4	4.9
5/16	6.1
3/8	7.2
1/2	9.4
3 1/2 x 2 1/2 x 1/4	4.9
5/16	6.1
3/8	7.2
1 1/2	9.4
3 1/2 x 3 x 1/4	5.4
5/16	6.6
3/8	7.9
1/2	10.2
3 1/2 x 3 1/2 x 1/4	5.8
5/16	7.2
3/8	8.5
1/2	11.1
4 x 3 x 1/4	5.8
5/16	7.2
3/8	8.5
1/2	11.1
5/8	13.6
4 x 3 1/2 x 1/4	6.2
5/16	7.7
3/8	9.1
1/2	11.9
4 x 4 x 1/4	6.6
5/16	8.2
3/8	9.8
1/2	12.8
5/8	15.7
3/4	18.5
5 x 3 x 1/4	6.6
5/16	8.2
3/8	9.8
1/2	12.8

Size in inches	Weight per Foot in lbs.
5 x 3 1/2 x 1/4	7.0
5/16	8.7
3/8	10.4
1/2	13.6
5/8	16.8
3/4	19.8
5 x 5 x 5/16	10.3
3/8	12.3
1/2	16.2
5/8	20.0
3/4	23.6
6 x 3 1/2 x 5/16	9.8
3/8	11.7
1/2	15.3
6 x 4 x 5/16	10.3
3/8	12.3
7/16	14.3
1/2	16.2
5/8	20.0
3/4	23.6
7/8	27.2
6 x 6 x 3/8	14.9
1/2	19.6
5/8	24.2
3/4	28.7
1	37.4
7 x 4 x 3/8	13.6
1/2	17.9
5/8	22.1
3/4	26.2
8 x 4 x 1/2	19.6
3/4	28.7
8 x 6 x 1/2	23.0
3/4	33.8
1	44.2
8 x 8 x 1/2	26.4
5/8	32.7
3/4	38.9
1	51.0

## Hot Rolled Sheets

<b>Standard Gauge</b>	<b>Decimal</b>	<b>Weight per Square Foot in Lbs.</b>
7	.1793	7.500
8	.1644	6.875
9	.1494	6.250
10	.1345	5.625
11	.1196	5.000
12	.1046	4.375
13	.0897	3.750
14	.0747	3.125
15	.0673	2.812
16	.0598	2.500
17	.0538	2.250
18	.0478	2.000
19	.0418	1.750
20	.0359	1.500
21	.0329	1.375
22	.0299	1.250
23	.0269	1.125
24	.0239	1.000
25	.0209	.875
26	.0179	.750
27	.0164	.6875
28	.0149	.625
29	.0135	.5625
30	.0120	.500

## Floor Plates

<b>Thickness in Inches</b>	<b>Weight Per Sq. Foot in Lbs.</b>
#14	3.75
1/8	6.16
3/16	8.71
1/4	11.26

<b>Thickness in Inches</b>	<b>Weight Per Sq. Foot in Lbs.</b>
3/8	16.37
1/2	21.47
3/4	31.68
1	41.89

## Hot Rolled Plates

Thickness in Inches	Weight Per Sq. Foot in Lbs.
3/16	7.66
1/4	10.21
5/16	12.76
3/8	15.32
7/16	17.87
1/2	20.42
9/16	22.97
5/8	25.53
11/16	28.08
3/4	30.63
7/8	35.73
1	40.84
1-1/8	45.95
1-1/4	51.05
1-3/8	56.16
1-1/2	61.26
1-5/8	66.37
1-3/4	71.47
1-7/8	76.58
2	81.68
2-1/8	86.78
2-1/4	91.89
2-3/8	96.99

Thickness in Inches	Weight Per Sq. Foot in Lbs.
2-1/2	102.10
2-5/8	107.20
2-3/4	112.31
2-7/8	117.41
3	122.52
3-1/4	132.72
3-1/2	142.93
3-3/4	153.14
4	163.35
4-1/4	173.56
4-1/2	183.77
4-3/4	193.98
5	204.19
5-1/2	224.61
6	245.03
6-1/2	265.45
7	285.87
7-1/2	306.29
8	326.71
8-1/2	347.13
9	367.55
10	408.38
11	449.22
12	490.06



## Universal Mill Plates

<b>Size in inches</b>	<b>Weight per Foot in lbs.</b>
9 x 1/4	7.66
3/8	11.49
1/2	15.31
3/4	22.97
1	30.63
10 x 1/4	8.51
3/8	12.76
1/2	17.02
5/8	21.27
3/4	25.52
7/8	29.78
1	34.02
11 x 1/4	9.35
3/8	14.04
1/2	18.72
5/8	23.40
3/4	28.08
1	37.44
12 x 1/4	10.21
3/8	15.31
1/2	20.42
5/8	25.52
3/4	30.63
1	40.84



## Hot Rolled Flats

Size in inches	Weight per Foot in lbs.
1/4 x 1/2 3/4	.425 .638
1/4 x 1 1 1/4 1 1/2 1 3/4	.850 1.060 1.280 1.490
1/4 x 2 2 1/2	1.700 2.130
1/4 x 3 3 1/2	2.550 2.980
1/4 x 4 4 1/2	3.400 3.830
1/4 x 5 5 1/2	4.250 4.680
1/4 x 6 7 8	5.100 5.950 6.800
5/16 X 1/2 5/8 3/4 7/8	.531 .664 .797 .930
5/16 X 1 1 1/4 1 1/2	1.060 1.330 1.590
5/16 X 2 2 1/2	2.130 2.660
5/16 X 3 3 1/2	3.190 3.720
5/16 X 4	4.250
5/16 X 5	5.310
5/16 X 6 7 8	6.380 7.440 8.500

3/8 x 1 1 1/4 1 1/2 1 3/4	1.280 1.590 1.910 2.230
3/8 x 2 2 1/2	2.55 3.19
3/8 x 3 3 1/2	3.830 4.460
3/8 x 4 4 1/2	5.100 5.740
3/8 x 5 5 1/2	6.380 7.010
3/8 x 6	7.650
3/8 x 7	8.930
3/8 x 8	10.200
1/2 x 3/4 7/8	1.28 1.49
1/2 x 1 1 1/4 1 1/2 1 3/4	1.700 2.130 2.550 2.980
1/2 x 2 2 1/2	3.400 4.250
1/2 x 3 3 1/2	5.100 5.950
1/2 x 4 4 1/2	6.800 7.650
1/2 x 5 5 1/2	8.500 9.350
1/2 x 6 7 8	10.200 11.900 13.600
5/8 x 1 1 1/4 1 1/2	2.130 2.660 3.190
5/8 x 2 2 1/2	4.250 5.310
5/8 x 3 3 1/2	6.380 7.440

## Hot Rolled Flats Continued

Size in inches	Weight per Foot in lbs.
5/8 x 4 4 1/2	8.500 9.560
5/8 x 5	10.630
5/8 x 6 7 8	12.750 14.88 17.00
3/4 x 7/8	2.230
3/4 x 2 2 1/2	5.100 6.380

3/4 x 3 3 1/2	7.650 8.930
3/4 x 4 4 1/2	10.200 11.480
3/4 x 5	12.750
3/4 x 6 7 8	15.300 17.850 20.400
7/8 x 1 1 1/4 1 1/2	2.980 3.720 4.460

7/8 x 3 3 1/2	8.930 10.410
7/8 x 4 4 1/2	11.900 13.390
7/8 x 5 5 1/2	14.880 16.360
7/8 x 6 7 8	17.850 20.830 23.800
1 x 1 1/4 1 1/2	4.250 5.100
1 x 2 2 1/2	6.800 8.500
1 x 3 3 1/2	10.200 11.900
1 x 4 4 1/2	13.600 15.300
1 x 5	17.000
1 x 6 7 8	20.400 23.800 27.200
1 1/4 x 1 1/2	6.380
1 1/4 x 2 2 1/2	8.500 10.630

1 1/4 x 3 3 1/2	12.750 14.880
1 1/4 x 4 4 1/2	17.000 19.130
1 1/4 x 5 5 1/2	21.250 23.380
1 1/4 x 6 7 8	25.500 29.750 34.000
1 1/2 x 2 2 1/2	10.200 12.750
1 1/2 x 3	15.300
1 1/2 x 4 4 1/2	20.400 22.950
1 1/2 x 5 5 1/2	25.500 28.050
1 1/2 x 6 7 8	30.600 35.700 40.800
2 x 3 3 1/2	20.400 23.800
2 x 4 4 1/2	27.200 30.600
2 x 5 6 7 8	34.000 40.800 47.600 54.400

## Standard Channels



Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
C3 x	3.5	3	1 3/8	1/4	1/8
	4.1	3	1 3/8	—	3/16
	5.0	3	1 1/2	—	—
	6.0	3	1 9/16	—	5/16
C4 x	4.5	4	1 5/8	5/16	1/8
	5.4	4	1 5/8	5/16	3/16
	6.25	4	1 5/8	5/16	4/16
	7.25	4	1 3/4	5/16	5/16
C5 x	6.7	5	1 3/4	5/16	3/16
	9.0	5	1 7/8	5/16	5/16
C6 x	8.2	6	1 7/8	5/16	3/16
	10.5	6	2	5/16	5/16
	13.0	6	2 1/8	5/16	7/16
C7 x	9.8	7	2 1/8	3/8	3/16
	12.25	7	2 1/4	3/8	5/16
	14.75	7	2 3/8	7/16	7/16
C8 x	8.5	8	1 7/8	3/8	3/16
	11.5	8	2 1/4	3/8	—
	13.75	8	2 3/8	3/8	5/16
	18.75	8	2 1/2	3/8	—
C9 x	13.4	9	2 3/8	7/16	—
	15.0	9	2 1/2	7/16	5/16
	20	9	2 5/8	1/2	1/2
C10 x	15.3	10	2 5/8	7/16	—
	20.0	10	2 3/4	7/16	3/8
	25.0	10	2 7/8	7/16	—
	30.0	10	3	7/16	11/16
C12 x	20.7	12	3	—	5/16



	25.0	12	3	—	3/8
	30.0	12	3 1/8	—	—
C15 x	33.9	15	3 3/8	5/8	3/8
	40.0	15	3 1/2	5/8	—
	50.0	15	3 3/4	5/8	11/16

# MC Channels



Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
MC3 x	7.1	3	2	3/8	5/16
MC4 x	13.8	4	2 1/2	3/8	—
MC6 x	12.0	6	2 1/2	3/8	5/16
MC6 x	15.1	6	3	—	5/16
	16.3	6	3	—	3/8
MC6 x	15.3	6	3 1/2	3/8	5/16
MC6 x	18	6	3 1/2	—	3/8
MC7 x	17.6	7	3	—	3/8
	19.1	7	3 1/2	—	3/8
	22.7	7	3 5/8	—	—
MC8 x	18.7	8	3	—	3/8
	20.0	8	3	—	3/8
MC8 x	21.4	8	3 1/2	—	3/8
	22.8	8	3 1/2	—	7/16
MC9 x	23.9	9	3 1/2	9/16	3/8
	25.4	9	3 1/2	9/16	7/16
MC10 x	22.0	10	3 3/8	9/16	5/16
	25.0	10	3 3/8	9/16	3/8
MC10 x	28.5	10	4	9/16	7/16
	33.6	10	4 1/8	9/16	9/16
	41.1	10	4 3/8	9/16	13/16
MC12 x	30.9	12	3 1/2	5/8	7/16
	32.9	12	3 1/2	5/8	—
	37.0	12	3 5/8	5/8	5/8
MC12 x	31.0	12	3 5/8	11/16	3/8
	35.0	12	3 3/4	11/16	7/16
	40.0	12	3 7/8	11/16	9/16
	45.0	12	4	11/16	11/16
	50.0	12	4 1/8	11/16	13/16
MC13 x	31.8	13	4	5/8	3/8
	35.0	13	4 1/8	5/8	7/16
	40.0	13	4 1/8	5/8	9/16
	50.0	13	4 3/8	5/8	13/16
MC18 x	42.7	18	4	5/8	7/16
	45.8	18	4	5/8	—
	51.9	18	4 1/8	5/8	5/8
	58.0	18	4 1/4	5/8	11/16



## Bar Channels

Size in inches	Weight per Foot in lbs.
3/4 x 3/8 x 1/8	.56
1 x 3/8 x 1/8	.68
1 x 1/2 x 1/8	.83
1 1/4 x 1/2 x 1/8	1.01
1 1/2 x 1/2 x 1/8	1.12
1 1/2 x 9/16 x 3/16	1.44

Size in inches	Weight per Foot in lbs.
2 x 1/2 x 1/8	1.33
2 x 9/16 x 3/16	1.76
2 x 5/8 x 1/4	2.18
2 x 1 x 1/8	1.78
2 x 1 x 3/16	2.57
2 1/2 x 5/8 x 3/16	2.27

## Stringer Channels

Size in inches	Weight per Foot in lbs.	Flange Width	Flange Thickness
10	8.4	1.500	.170
12	10.6	1.500	.190
	14.3	2.125	.313

## Standard Shapes

Section Number	Weight per Foot in lbs.	Depth of Section in inches	Flange Width in inches	Flange Thickness in inches	Web Thickness in inches
S3 x	5.7	3	2 3/8	1/4	3/16
	7.5	3	2 1/2	1/4	3/8
S4 x	7.7	4	2 5/8	5/16	3/16
	9.5	4	2 3/4	5/16	3/16
S5 x	10	5	3	5/16	3/16
S6 x	12.5	6	3 3/8	3/8	1/4
	17.25	6	3 5/8	3/8	7/16
S8 x	18.4	8	4	1/4	7/16
	23.0	8	4 1/8	7/16	7/16
S10 x	25.4	10	4 5/8	1/2	5/16
	35	10	5	1/2	5/8
S12 x	31.8	12	5	9/16	3/8
	35.0	12	5 1/8	9/16	7/16
S12 x	40.8	12	5 1/4	11/16	7/16
	50.0	12	5 1/2	11/16	11/16
S15 x	42.9	15	5 1/2	5/8	7/16
	50.0	15	5 5/8	5/8	9/16
S18 x	54.7	18	6	11/16	7/16
	70.0	18	6 1/4	11/16	11/16
S20 x	66.0	20	6 1/4	1/2	13/16
	75.0	20	6 3/8	5/8	13/16
S20 x	86.0	20 1/4	7	15/16	11/16
	96.0	20 1/4	7 1/4	15/16	13/16
S24 x	80.0	24	7	7/8	1/2
	90.0	24	7 1/8	7/8	5/8
	100.0	24	7 1/4	7/8	3/4
S24 x	106.0	24 1/2	7 7/8	11/16	5/8
	121.0	24 1/2	8	11/16	13/16

## Hot Rolled Rounds



Size in inches	Weight per Foot in lbs.
1/4	.1669
5/16	.2608
3/8	.3755
7/16	.5111
1/2	.6676
9/16	.8449
5/8	1.0431
3/4	1.5021
7/8	2.0445
1	2.6704
1 1/4	4.1724
1 3/8	5.0486
1 1/2	6.0083
1 5/8	7.0514
1 3/4	8.1780
2	10.6814
2 1/4	13.5187
2 1/2	16.6898

Size in inches	Weight per Foot in lbs.
3	24.0330
4	42.7260
4 1/2	54.0750
5	66.7590
6	93.1300
7	130.8500
8	170.9000
9	216.3000

## Hot Rolled Squares



Size in inches	Weight per Foot in lbs.
3/8	.478
7/16	.651
1/2	.850
9/16	1.080
5/8	1.330
3/4	1.910
7/8	2.600
1	3.400
1 1/4	5.310
1 1/2	7.650
1 3/4	10.410
2	13.600
2 1/2	21.250
3	30.600
3 1/2	41.650
4	54.400
4 1/2	68.850
5	85.000
6	122.400

## Reinforcing Bars



Bar Designation	Metric Equivalent	Weight per Lineal Foot in lbs.
# 3	10	.376
# 4	13	.668
# 5	16	1.043
# 6	19	1.502
# 7	22	2.044
# 8	25	2.670
# 9	29	3.400
#10	32	4.303
#11	36	5.313
#14	43	7.650
#18	49	13.600

## Pipe: Schedule 10



Nominal Pipe Size	Outside Diameter in inches	Schedule 10	Weight per Lineal Foot in lbs.
1/8	.405	.049	.1863
1/4	.540	.065	.3297
3/8	.675	.065	.4225
1/2	.840	.083	.6710
3/4	1.050	.083	.8572
1	1.315	.109	1.4040
1 1/4	1.660	.109	1.8060
1 1/2	1.900	.109	2.0850
2	2.375	.109	2.6380
2 1/2	2.875	.120	3.5310
3	3.500	.120	4.3320
3 1/2	4.000	.120	4.9730
4	4.500	.120	5.6130
5	5.563	.134	7.7700
6	6.625	.134	9.2890
8	8.625	.148	13.4000
10	10.750	.165	18.6500
12	12.750	.180	24.1600
14	14.000	.250	36.7100
16	16.000	.250	42.0500
18	18.000	.250	47.3900
20	20.000	.250	52.7300
24	24.000	.250	63.4100
30	30.000	.312	98.9300



## Pipe: Schedule 40

Nominal Pipe Size	Outside Diameter in inches	Schedule 40	Weight per Lineal Foot in lbs.
1/8	.405	.068	.2447
1/4	.540	.088	.4248
3/8	.675	.091	.5650
1/2	.840	.109	.8510
3/4	1.050	.113	1.1310
1	1.315	.133	1.6790
1 1/4	1.660	.140	2.2730
1 1/2	1.900	.145	2.7180
2	2.375	.154	3.6530
2 1/2	2.875	.203	5.7930
3	3.500	.216	7.5760
3 1/2	4.000	.226	9.1090
4	4.500	.237	10.7900
5	5.563	.258	14.6200
6	6.625	.280	18.9700
8	8.625	.322	28.5500
10	10.750	.365	40.4800
12	12.750	.406	53.5200
14	14.000	.438	63.4400
16	16.000	.500	82.7700
18	18.000	.562	104.7000
20	20.000	.593	122.9000
24	24.000	.687	171.1000





## Pipe: Schedule 80 XS

Nominal Pipe Size	Outside Diameter in inches	Schedule 80	Weight per Lineal Foot in lbs.
1/8	.405	.095	.3145
1/4	.540	.119	.5351
3/8	.675	.126	.7388
1/2	.840	.147	1.0880
3/4	1.050	.154	1.4740
1	1.315	.179	2.1720
1 1/4	1.660	.191	2.9970
1 1/2	1.900	.200	3.6310
2	2.375	.218	5.0220
2 1/2	2.875	.276	7.6610
3	3.500	.300	10.2500
3 1/2	4.000	.318	12.5100
4	4.500	.337	14.9800
5	5.563	.375	20.7800
6	6.625	.432	28.5700
8	8.625	.500	43.3900
10	10.750	.593	64.3300
12	12.750	.687	88.5100
14	14.000	.750	106.1000
16	16.000	.843	136.5000
18	18.000	.937	170.8000
20	20.000	1.031	208.9000
24	24.000	1.218	295.9000



## Pipe: Schedule 160

Nominal Pipe Size	Outside Diameter in inches	Schedule 160	Weight per Lineal Foot in lbs.
1/2	.840	.187	1.301
3/4	1.050	.218	1.937
1	1.315	.250	2.844
1 1/4	1.660	.250	3.765
1 1/2	1.900	.281	4.859
2	2.375	.343	7.444
2 1/2	2.875	.375	10.010
3	3.500	.438	14.320
4	4.500	.531	22.510
5	5.563	.625	32.960
6	6.625	.718	45.350
8	8.625	.906	74.690
10	10.750	1.125	115.600
12	12.750	1.312	160.300
14	14.000	1.406	189.100
16	16.000	1.593	245.100
18	18.000	1.781	308.500
20	20.000	1.968	379.000
24	24.000	2.343	541.900

## Pipe: XXS

Nominal Pipe Size	Outside Diameter in inches	Schedule XXS	Weight per Lineal Foot in lbs.
1/2	.840	.294	1.714
1/4	1.050	.308	2.441
1	1.315	.358	3.659
1 1/4	1.660	.382	5.214
1 1/2	1.900	.400	6.408
2	2.375	.436	9.029
2 1/2	2.875	.552	13.70
3	3.500	.600	18.58



## Tubing: Square Structural Steel

	Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
	3/8 x 3/8	.065	.2740
	1/2 x 1/2	.035 .049 .065	.2213 .3005 .3845
*	5/8 x 5/8	.028 .035 .049 .065 .083	.2273 .2808 .3838 .4950 .6118
	3/4 x 3/4	.028 .035 .049 .065 .083 .20	.2749 .3403 .4671 .6055 .7530 1.028
*	7/8 x 7/8	.028 .035 .049 .065 .083 .095	.3225 .3998 .5504 .7160 .8940 1.008
	1 x 1	.028 .035 .049 .065 .072 .083 .095 .109 .120	.3701 .4593 .6337 .8265 .9090 1.0350 1.1690 1.3210 1.4360
*	1 1/8 X 1 1/8	.035 .049 .065 .083 .095 .109 .120	.5188 .7170 .9370 1.1760 1.3310 1.5060 1.6400
	1 1/4 X 1 1/4	.035 .049 .065 .083 .095 .109 .120 .188	.5780 .8000 1.0470 1.3170 1.4920 1.6910 1.8440 2.6100
	1 1/2 X 1 1/2	.035 .049 .065 .083 .095 .109 .120 .134 .188	.6977 .9670 1.2680 1.5990 1.8150 2.0620 2.2520 2.4890 3.0400
	1 3/4 X 1 3/4	.035 .049 .065 .083 .095 .109 .120 .134	.8163 1.1340 1.4900 1.8820 2.1380 2.4320 2.6600 2.9450
	<b>Outside</b>	<b>Wall</b>	<b>Weight per</b>

	Dimensions in inches	Thickness	Foot in lbs.
	2 X 2	.065 .083 .095 .109 .120 .134 .148 .188 .220 .250	1.7100 2.1640 2.4610 2.8030 3.0680 3.4010 3.7280 4.3200 5.3260 5.4100
*	2 1/4 X 2 1/4	.065 .083 .095 .109 .120 .134 .148 .180	1.9320 2.4460 2.7840 3.1740 3.4760 3.8560 4.2310 5.0670
	2 1/2 X 2 1/2	.065 .083 .095 .109 .120 .134 .148 .188 .250	2.1520 2.7280 3.1070 3.5440 3.8840 4.3120 4.7340 5.5900 7.1100
	3 X 3	.065 .083 .095 .109 .120 .134 .188 .203 .250 .313	2.5940 3.2920 3.7530 4.2860 4.7000 5.2230 6.8700 7.7220 8.8100 10.580
*	3 1/4 X 3 1/4	.083 .095 .109 .120 .134 .180	3.5750 4.0760 4.6560 5.1080 5.6790 7.5150
	3 1/2 X 3 1/2	.083 .095 .109 .120 .125 .134 .148 .188 .250 .313	3.8570 4.3990 5.0270 5.5160 5.6100 6.1340 6.7470 8.1500 10.5100 12.7000
	4 X 4	.083 .120 .188 .250 .313 .375 .500	4.4220 6.3300 9.4200 12.2100 14.8300 17.2700 21.6300
	4 1/2 X 4 1/2	.188 .250	10.7000 13.9100

\* - CHECK AVAILABILITY

**Tubing: Square Structural Steel** Continued

Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
5 X 5	.188	11.9700
	.250	15.6200
	.313	19.0800
	.375	22.3700
	.500	28.4300
5 1/2 X 5 1/2	.188	13.2500
	.250	17.3200
	.313	21.2100
	.375	24.9300
6 X 6	.188	14.5300
	.250	19.0200
	.313	23.3400
	.375	27.4800
7 X 7	.188	17.0800
	.250	22.4200
	.313	27.5900
	.375	32.5800
8 X 8	.188	19.6300
	.250	25.8200
	.313	31.8400
	.375	37.6900
9 x 9	.188	22.1800
	.250	29.2300
	.313	36.1000
	.375	42.7900
10 x 10	.188	24.7300
	.250	32.6300
	.375	47.9000
	.500	62.4600
12 x 12	.188	29.8400
	.250	39.4300
	.375	58.1000
	.500	76.0700

## Tubing: Rectangular Structural Steel



	Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
	3/4 x 1/2	.065	.4950
	1 x 1/2	.065	.6055
	1 1/4 x 1/2	.065	.7160
	1 1/2 x 3/4	.065	.9370
		.120	1.6400
	1 1/2 x 1	.049	.8000
		.065	1.0480
		.083	1.3170
		.095	1.4920
		.109	1.6910
	2 x 1	.120	1.8440
		.065	1.2690
		.083	1.6000
		.095	1.8150
		.109	2.0620
	2 x 1 1/4	.120	2.2520
*		.065	1.3790
		.083	1.7410
		.095	1.9770
		.109	2.2470
	2 x 1 1/2	.120	2.4560
		.065	1.4900
		.083	1.8820
		.095	2.1380
		.109	2.4330
	2 1/2 x 1	.120	2.6600
*		.065	1.4900
		.083	1.8820
		.095	2.1380
		.109	2.4330
	2 1/2 x 1 1/2	.120	2.6600
		.065	1.7110
		.083	2.1640
		.095	2.4610
		.109	2.8030
		.120	3.0680
		.134	3.4010
		.180	4.4540
	3 x 1	.188	4.4900
		.250	5.4000
		.065	1.7110
		.083	2.1640
		.095	2.4610
	3 x 1 1/2	.109	2.8030
		.120	3.0680
		.065	1.9320
		.083	2.4460
		.095	2.7840
	3 x 2	.109	3.1740
		.120	3.4760
		.134	3.8560
		.148	4.2310
		.180	5.0670
		.188	5.0700
		.065	2.1530

	Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
		.083	2.7280
	3 x 2	.065	3.1070
		.109	3.5440
		.120	3.8840
		.134	4.3120
		.148	4.7340
		.188	5.5900
	3 x 2 1/2	.250	7.1100
*		.065	2.3740
		.083	3.0110
		.095	3.4300
		.109	3.9150
		.120	4.2920
	3 1/2 x 1	.134	4.7670
		.148	5.2370
		.180	6.2910
		.109	3.1740
*	3 1/2 x 1 1/2	.065	2.1530
		.083	2.7280
		.095	3.1070
		.109	3.5440
	3 1/2 x 2 1/2	.120	3.8840
		.065	2.5950
		.083	3.2930
		.095	3.7530
		.109	4.2860
		.120	4.7000
	4 x 1 1/2	.134	5.2230
		.148	5.7410
		.180	6.9030
*		.065	2.3740
		.083	3.0110
		.095	3.4300
	4 x 2	.109	3.9150
		.120	4.2920
		.134	4.7670
		.148	5.2370
		.180	6.2910
		.065	2.5950
		.083	3.2930
		.095	3.7530
	4 x 2 1/2	.109	4.2860
		.120	4.7000
		.134	5.2230
		.148	5.7410
		.188	6.8700
		.250	8.8100
*		.083	3.5750
		.095	4.0760
	.109	4.6560	
	.120	5.1080	
	.134	5.6790	
	.148	6.2440	
	.180	7.5150	

\* - CHECK AVAILABILITY

## Tubing: Rectangular Structural Steel

Continued

	Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
	4 x 3	.083	3.8570
		.095	4.3990
		.109	5.0270
		.120	5.5160
		.134	6.1340
		.148	6.7470
		.188	8.1500
		.250	10.5100
	.313	12.7000	
	5 x 2	.109	5.0270
		.120	5.5160
		.134	6.1340
		.148	6.7470
		.188	8.1500
	.250	10.5100	
*	5 x 2 1/2	.109	5.3970
		.120	5.9240
		.134	6.5900
		.148	7.2500
	.180	8.7390	
	5 x 3	.120	6.3300
		.188	9.4200
		.250	12.2100
		.313	14.8300
		.375	17.2700
	.500	21.6300	
	5 x 4	.188	10.7000
		.250	13.9100
	6 x 2	.188	9.4200
		.250	12.2100
		.313	14.8300
	6 x 3	.120	7.1500
		.188	10.7000
		.250	13.9100
		.375	19.8200
	6 x 4	.188	11.9700
		.250	15.6200
		.313	19.0800
		.375	22.3700
		.500	28.4300
	7 x 4	.188	13.2500
		.250	17.3200
		.313	21.2100
		.375	24.9300
	7 x 5	.188	14.5300
		.250	19.0200
		.313	23.3400
		.375	27.4800
		.500	35.2400
	8 x 2	.188	11.9700
		.250	15.6200
		.313	19.0800
		.375	22.3700

	Outside Dimensions in inches	Wall Thickness	Weight per Foot in lbs.
	8 x 3	.188	13.2500
		.250	17.3200
		.313	21.2100
		.375	24.9300
	8 x 4	.188	14.5300
		.250	19.0200
		.313	23.3400
		.375	27.4800
		.500	35.2400
	8 x 6	.188	17.0800
		.250	22.4200
		.313	27.5900
		.375	32.5800
	.500	42.0500	
	9 x 3	.188	14.5300
		.250	19.0200
		.313	23.3400
	.375	27.4800	
	9 x 5	.188	17.0800
		.250	22.4200
		.313	27.5900
	.375	32.5800	
	9 x 7	.188	19.6300
		.250	25.8200
		.313	31.8400
	.375	37.6900	
	10 x 2	.188	14.5300
		.250	19.0200
		.313	23.3400
	.375	27.4800	
	.500	35.2400	
	10 x 3	.250	20.7200
	10 x 4	.188	17.0800
		.250	22.4200
		.313	27.5900
		.375	32.5800
	10 x 5	.188	18.3500
		.250	24.1200
	10 x 6	.188	19.6300
		.250	25.8200
		.313	31.8400
		.375	37.6900
	.500	48.8500	
	10 x 8	.375	42.7900
		.500	55.6600
	12 x 2	.188	17.0800
	12 x 4	.188	19.6300
		.250	25.8200
		.313	31.8400
		.375	37.6900
	12 x 6	.188	22.1800
		.250	29.2300
		.313	36.1000
		.375	42.7900
		.500	55.6600

## Fractions of an Inch in Equivalent Decimals

Fractions of an Inch	=	Decimals of an Inch
1/64	=	.015625
1/32	=	.03125
3/64	=	.046875
1/16	=	.0625
5/64	=	.078125
3/32	=	.09375
7/64	=	.109375
1/8	=	.125
9/64	=	.140625
5/32	=	.15625
11/64	=	.171875
3/16	=	.1875
13/64	=	.203125
7/32	=	.21875
15/64	=	.234375
1/4	=	.25
17/64	=	.265625
9/32	=	.28125
19/64	=	.296875
5/16	=	.3125
21/64	=	.328125
11/32	=	.34375
23/64	=	.359375
3/8	=	.375
25/64	=	.390625
13/32	=	.40625
27/64	=	.421875
7/16	=	.4375
29/64	=	.453125
15/32	=	.46875
31/64	=	.484375
1/2	=	.5

Fractions of an Inch	=	Decimals of an Inch
33/64	=	.515625
17/32	=	.53125
35/64	=	.546875
9/16	=	.5625
37/64	=	.578125
19/32	=	.59375
39/64	=	.609375
5/8	=	.625
41/64	=	.640625
21/32	=	.65625
43/64	=	.671875
11/16	=	.6875
45/64	=	.703125
23/32	=	.71875
47/64	=	.734375
3/4	=	.75
49/64	=	.765625
25/32	=	.78125
51/64	=	.796875
13/16	=	.8125
53/64	=	.828125
27/32	=	.84375
55/64	=	.859375
7/8	=	.875
57/64	=	.890625
29/32	=	.90625
59/64	=	.921875
15/16	=	.9375
61/64	=	.953125
31/32	=	.96875
63/64	=	.984375
1	=	1.000000

## Inches Expressed in Decimals of a Foot

Inches	=	Decimal of a Foot
1/16	=	.0052
1/8	=	.0104
3/16	=	.0156
1/4	=	.0208
5/16	=	.0260
3/8	=	.0312
7/16	=	.0364
1/2	=	.0416
9/16	=	.0468
5/8	=	.0520
11/16	=	.0572
3/4	=	.0625
13/16	=	.0677
7/8	=	.0729
15/16	=	.0781
1	=	.0833
1 1/16	=	.0885
1 1/8	=	.0937
1 3/16	=	.0989
1 1/4	=	.1041
1 5/16	=	.1093
1 3/8	=	.1145
1 7/16	=	.1197
1 1/2	=	.1250
1 9/16	=	.1302
1 5/8	=	.1354
1 11/16	=	.1406
1 3/4	=	.1458
1 13/16	=	.1510
1 7/8	=	.1562
1 15/16	=	.1614
2	=	.1666
2 1/16	=	.1718
2 1/8	=	.1770
2 3/16	=	.1822
2 1/4	=	.1875
2 5/16	=	.1927
2 3/8	=	.1979
2 7/16	=	.2031
2 1/2	=	.2083
2 9/16	=	.2135
2 5/8	=	.2187
2 11/16	=	.2239
2 3/4	=	.2291

Inches	=	Decimal of a Foot
2 13/16	=	.2343
2 7/8	=	.2395
2 15/16	=	.2447
3	=	.2500
3 1/16	=	.2552
3 1/8	=	.2604
3 3/16	=	.2656
3 1/4	=	.2708
3 5/16	=	.2760
3 3/8	=	.2812
3 7/16	=	.2864
3 1/2	=	.2916
3 9/16	=	.2968
3 5/8	=	.3020
3 11/16	=	.3072
3 3/4	=	.3125
3 13/16	=	.3177
3 7/8	=	.3229
3 15/16	=	.3281
4	=	.3333
4 1/16	=	.3385
4 1/8	=	.3437
4 3/16	=	.3489
4 1/4	=	.3541
4 5/16	=	.3593
4 3/8	=	.3645
4 7/16	=	.3697
4 1/2	=	.3750
4 9/16	=	.3802
4 5/8	=	.3854
4 11/16	=	.3906
4 3/4	=	.3958
4 13/16	=	.4010
4 7/8	=	.4062
4 15/16	=	.4114
5	=	.4166
5 1/16	=	.4218
5 1/8	=	.4270
5 3/16	=	.4322
5 1/4	=	.4375
5 5/16	=	.4427
5 3/8	=	.4479
5 7/16	=	.4531
5 1/2	=	.4583



## Inches Expressed in Decimals of a Foot

Continued

Inches	=	Decimal of a Foot
59/16	=	.4635
55/8	=	.4687
511/16	=	.4739
53/4	=	.4791
513/16	=	.4843
57/8	=	.4895
515/16	=	.4947
6	=	.5000
61/16	=	.5052
61/8	=	.5104
63/16	=	.5156
61/4	=	.5208
65/16	=	.5260
63/8	=	.5312
67/16	=	.5364
61/2	=	.5416
69/16	=	.5468
65/8	=	.5520
611/16	=	.5572
63/4	=	.5625
613/16	=	.5677
67/8	=	.5729
615/16	=	.5781
7	=	.5833
71/16	=	.5885
71/8	=	.5937
73/16	=	.5989
71/4	=	.6041
75/16	=	.6093
73/8	=	.6145
77/16	=	.6197
71/2	=	.6250
79/16	=	.6302
75/8	=	.6354
711/16	=	.6406
73/4	=	.6458
713/16	=	.6510
77/8	=	.6562
715/16	=	.6614
8	=	.6666
81/16	=	.6718
81/8	=	.6770
83/16	=	.6822
81/4	=	.6875
85/16	=	.6927
83/8	=	.6979
87/16	=	.7031
81/2	=	.7083
89/16	=	.7135
85/8	=	.7187
811/16	=	.7239
83/4	=	.7291

Inches	=	Decimal of a Foot
813/16	=	.7343
87/8	=	.7395
815/16	=	.7447
9	=	.7500
91/16	=	.7552
91/8	=	.7604
93/16	=	.7656
91/4	=	.7708
95/16	=	.7760
93/8	=	.7812
97/16	=	.7864
91/2	=	.7916
99/16	=	.7968
95/8	=	.8020
911/16	=	.8072
93/4	=	.8125
913/16	=	.8177
97/8	=	.8229
915/16	=	.8281
10	=	.8333
101/16	=	.8385
101/8	=	.8437
103/16	=	.8489
101/4	=	.8541
105/16	=	.8593
103/8	=	.8645
107/16	=	.8697
101/2	=	.8750
109/16	=	.8802
105/8	=	.8854
1011/16	=	.8906
103/4	=	.8958
1013/16	=	.9010
107/8	=	.9062
1015/16	=	.9114
11	=	.9166
111/16	=	.9218
111/8	=	.9270
113/16	=	.9322
111/4	=	.9375
115/16	=	.9427
113/8	=	.9479
117/16	=	.9531
111/2	=	.9583
119/16	=	.9635
115/8	=	.9687
1111/16	=	.9739
113/4	=	.9791
1113/16	=	.9843
117/8	=	.9895
1115/16	=	.9947
12	=	1.0000