



**PHILLIPS  
STEEL**

Timely Solutions | Years of Results

# STOCK LIST

CARBON STEEL | ALUMINUM  
STAINLESS STEEL

562.435.7571 | PHILLIPSSTEEL.COM  
1368 W ANAHEIM ST | LONG BEACH CA 90813

## **MATERIAL**

CARBON STEEL | ALUMINUM  
STAINLESS STEEL

## **PRODUCTS**

ANGLE | CHANNEL | BAR | TUBE  
PIPE | SHEET | PLATE | EXPANDED  
GRATING | STRUCTURAL BEAMS  
WELDING SUPPLIES  
SAFETY EQUIPMENT | HARDWARE  
ABRASIVES  
HAND TOOLS | POWER TOOLS

## **SERVICES**

PLASMA | SAW CUTTING  
WATERJET | SHEARING  
ROLLING | BENDING  
DRILLING | TAPPING

## **COMPLIANCE**

AISC 303, 360, 341  
AWS D1.1, D1.2, D1.3, D1.6, D1.8

**562.435.7571**

**phillipssteel.com**

SAME DAY SERVICE AND  
EMERGENCY SERVICE AVAILABLE

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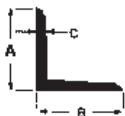
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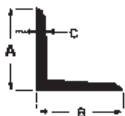
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# ANGLES

Stock Lengths 20'

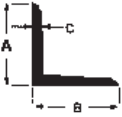
SIZE IN INCHES (A,B,C)	WEIGHT (WT.) PER FOOT	SIZE IN INCHES (A,B,C)	WT. PER FOOT
1/2x1/2x1/8	.38	1 <sup>3</sup> / <sub>4</sub> x1 <sup>3</sup> / <sub>4</sub> x1/8	1.44
5/8x5/8x1/8	.48	3/16	2.12
3/4x3/4x1/8	.59	1/4	2.77
1x1x1/8	.80	2x1 <sup>1</sup> / <sub>2</sub> x1/8	1.44
3/16	1.16	3/16	2.12
1/4	1.49	1/4	2.77
1 <sup>1</sup> / <sub>4</sub> x1 <sup>1</sup> / <sub>4</sub> x1/8	1.01	2x2x1/8	1.65
3/16	1.48	3/16	2.44
1/4	1.92	1/4	3.19
1 <sup>1</sup> / <sub>2</sub> x1 <sup>1</sup> / <sub>2</sub> x1/8	1.23	5/16	3.92
3/16	1.80	3/8	4.70
1/4	2.34		
		2 <sup>1</sup> / <sub>2</sub> x1 <sup>1</sup> / <sub>2</sub> x3/16	2.44
		1/4	3.19
		5/16	3.92
		2 <sup>1</sup> / <sub>2</sub> x2x3/16	2.75
		1/4	3.62
		5/16	4.50
		3/8	5.30
		2 <sup>1</sup> / <sub>2</sub> x2 <sup>1</sup> / <sub>2</sub> x3/16	3.07
		1/4	4.10
		5/16	5.00
		3/8	5.90
		1/2	7.70



# ANGLES

Stock Lengths 20'

SIZE IN INCHES (A,B,C)	WT. PER FOOT	SIZE IN INCHES (A,B,C)	WT. PER FOOT
3x2x3/16	3.1	4x3x1/4	5.8
1/4	4.1	5/16	7.2
5/16	5.0	3/8	8.5
3/8	5.9	1/2	11.1
1/2	7.7	5/8	13.6
3x2½x3/16	3.4	4x3½x1/4	6.2
1/4	4.5	5/16	7.7
5/16	5.6	3/8	9.1
3/8	6.6	1/2	11.9
1/2	8.5		
3x3x3/16	3.71	4x4x1/4	6.6
1/4	4.9	5/16	8.2
5/16	6.1	3/8	9.8
3/8	7.2	1/2	12.8
1/2	9.4	5/8	15.7
		3/4	18.5
3½x2½x1/4	4.9		
5/16	6.1	5x3x1/4	6.6
3/8	7.2	5/16	8.2
1/2	9.4	3/8	9.8
		1/2	12.8
3½x3x1/4	5.4		
5/16	6.6	5x3½x1/4	7.0
3/8	7.9	5/16	8.7
1/2	10.0	3/8	10.4
		1/2	13.6
3½x3½x1/4	5.8	5/8	16.8
5/16	7.2	3/4	19.8
3/8	8.5		
		5x5x5/16	10.3
		3/8	12.3
		1/2	16.2
		6x3½x1/4	7.9
		5/16	9.8
		3/8	11.7
		1/2	15.3



# ANGLES

Stock Lengths 20'

SIZE IN INCHES (A,B,C)	WT. PER FOOT	SIZE IN INCHES (A,B,C)	WT. PER FOOT
6X4X5/16	10.3	8x6x1/2	23.0
3/8	12.3	5/8	28.5
1/2	16.2	3/4	33.8
5/8	20.0	1	44.2
3/4	23.6		
7/8	27.2		
		8x8x1/2	26.4
6x6x5/16	12.4	5/8	32.7
3/8	14.9	3/4	38.9
1/2	19.6	1	51.0
5/8	24.2		
3/4	28.7		
1	37.4		
		9x4x1/2	21.3
		5/8	26.3
7x4x3/8	13.6	3/4	31.3
1/2	17.9	1	40.8
5/8	22.1		
3/4	26.2		
8x4x1/2	19.6		
5/8	24.2		
3/4	28.7		

# BEAMS

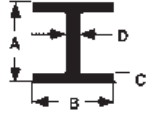
## STANDARD BEAMS - (I) Stock Lengths 20'



AISI DESIGNATION	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C WEB THICKNESS INCHES	WT. PER FOOT
S3 X 5.7	3	2.330	.170	5.7
S3 X 7.5	3	2.509	.349	7.5
S4 X 7.7	4	2.660	.190	7.7
S4 X 9.5	4	2.796	.326	9.5
S5 X 10	5	3.000	.210	10.0
S5 X 14.75	5	3.284	.494	14.75
S6 X 12.5	6	3.330	.230	12.5
S6 X 17.25	6	3.565	.465	17.25
S7 X 15.3	7	3.660	.250	15.3
S7 X 20	7	3.860	.450	20.0
S8 X 18.4	8	4.000	.270	18.4
S8 X 23	8	4.171	.441	23.0
S10 X 25.4	10	4.660	.310	25.4
S10 X 35	10	4.944	.594	35.0
S12 X 31.8	12	5.000	.350	31.8
S12 X 35	12	5.078	.428	25.0
S12 X 40.8	12	5.250	.460	40.8
S12 X 50	12	5.477	.687	50.0
S15 X 42.9	15	5.500	.410	42.9
S15 X 50	15	5.640	.550	50.0
S18 X 54.7	18	6.000	.460	54.7
S18 X 70	18	6.251	.711	70.0
S20 X 65.4	20	6.250	.500	65.4
S20 X 75	20	6.391	.641	75.0
S20 X 85	20	7.053	.653	85.0
S20 X 95	20	7.200	.800	95.0
S24 X 79.9	24	7.000	.500	79.9
S24 X 90	24	7.124	.624	90.0
S24 X 100	24	7.247	.747	100.0
S24 X 105.9	24	7.875	.625	105.9
S24 X 120	24	8.048	.798	120.0

# BEAMS

## WIDE FLANGE Stock Lengths 20'

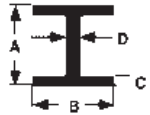


SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W4 x 13	4.16	4.060	0.345	0.280
W5 x 16	5.01	5.000	0.360	0.240
W5 x 19	5.15	5.030	0.430	0.270
W6 x 9	5.90	3.940	0.215	0.170
W6 x 12	6.03	4.000	0.280	0.230
W6 x 15	5.99	5.990	0.260	0.230
W6 x 16	6.28	4.030	0.405	0.260
W6 x 20	6.20	6.020	0.365	0.260
W6 x 25	6.38	6.080	0.455	0.320
W8 x 10	7.89	3.940	0.205	0.170
W8 x 13	7.99	4.000	0.255	0.230
W8 x 15	8.11	4.015	0.315	0.245
W8 x 18	8.14	5.250	0.330	0.230
W8 x 21	8.28	5.270	0.400	0.250
W8 x 24	7.93	6.495	0.400	0.245
W8 x 28	8.06	6.535	0.465	0.285
W8 x 31	8.00	7.995	0.435	0.285
W8 x 35	8.12	8.020	0.495	0.310
W8 x 40	8.25	8.070	0.560	0.360
W8 x 48	8.50	8.110	0.685	0.400
W8 x 58	8.75	8.220	0.810	0.510
W8 x 67	9.00	8.280	0.935	0.570
W10 x 12	9.87	3.960	0.210	0.190
W10 x 15	9.99	4.000	0.270	0.230
W10 x 17	10.11	4.010	0.330	0.240
W10 x 19	10.24	4.020	0.395	0.250
W10 x 22	10.17	5.750	0.360	0.240
W10 x 26	10.33	5.770	0.440	0.260
W10 x 30	10.47	5.810	0.510	0.300
W10 x 33	9.73	7.960	0.435	0.290
W10 x 39	9.92	7.985	0.530	0.315
W10 x 45	10.10	8.020	0.620	0.350
W10 x 49	9.98	10.000	0.560	0.340
W10 x 54	10.09	10.030	0.615	0.370
W10 x 60	10.22	10.080	0.680	0.420
W10 x 68	10.40	10.130	0.770	0.470
W10 x 77	10.60	10.190	0.870	0.530
W10 x 88	10.84	10.265	0.990	0.605
W10 x 100	11.10	10.340	1.120	0.680
W12 x 14	11.91	3.970	0.225	0.200
W12 x 16	11.99	3.990	0.265	0.220
W12 x 19	12.16	4.005	0.350	0.235
W12 x 22	12.31	4.030	0.425	0.260
W12 x 26	12.22	6.490	0.380	0.230
W12 x 30	12.34	6.520	0.440	0.260
W12 x 35	12.50	6.560	0.520	0.300



# BEAMS

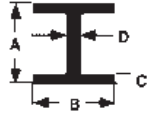
## WIDE FLANGE Stock Lengths 20'



SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W12 x 40	11.94	8.005	0.515	0.295
W12 x 45	12.06	8.045	0.575	0.335
W12 x 50	12.19	8.080	0.640	0.370
W12 x 53	12.06	9.995	0.575	0.345
W12 x 58	12.19	10.010	0.640	0.360
W12 x 65	12.12	12.000	0.605	0.390
W12 x 72	12.25	12.040	0.670	0.430
W12 x 79	12.38	12.080	0.735	0.470
W12 x 87	12.53	12.125	0.810	0.525
W12 x 96	12.71	12.160	0.900	0.550
W12 x 106	12.89	12.220	0.990	0.610
W12 x 120	13.12	12.320	1.105	0.710
W12 x 136	13.41	12.400	1.250	0.790
W12 x 152	13.71	12.480	1.400	0.870
W12 x 170	14.03	12.570	1.560	0.960
W12 x 190	14.38	12.670	1.735	1.060
W14 x 22	13.74	5.000	0.335	0.230
W14 x 26	13.91	5.025	0.420	0.255
W14 x 30	13.84	6.730	0.385	0.270
W14 x 34	13.98	6.745	0.455	0.285
W14 x 38	14.10	6.770	0.515	0.310
W14 x 43	13.66	7.995	0.530	0.305
W14 x 48	13.79	8.030	0.595	0.340
W14 x 53	13.92	8.060	0.660	0.370
W14 x 61	13.89	9.995	0.645	0.375
W14 x 68	14.04	10.035	0.720	0.415
W14 x 74	14.17	10.070	0.785	0.450
W14 x 82	14.31	10.130	0.885	0.510
W14 x 90	14.02	14.520	0.710	0.440
W14 x 99	14.16	14.565	0.780	0.485
W14 x 109	14.32	14.605	0.860	0.525
W14 x 120	14.48	14.670	0.940	0.590
W14 x 132	14.66	14.725	1.030	0.645
W16 x 26	15.69	5.500	0.345	0.250
W16 x 31	15.88	5.525	0.440	0.275
W16 x 36	15.86	6.985	0.430	0.295
W16 x 40	16.01	6.995	0.505	0.305
W16 x 45	16.13	7.035	0.565	0.345
W16 x 50	16.26	7.070	0.630	0.380
W16 x 57	16.43	7.120	0.715	0.430
W16 x 67	16.33	10.235	0.665	0.395
W16 x 77	16.52	10.295	0.760	0.455
W16 x 89	16.75	10.365	0.875	0.525
W16 x 100	15.97	10.425	0.985	0.585
W18 x 35	17.70	6.000	0.425	0.300
W18 x 40	17.90	6.015	0.525	0.315

# BEAMS

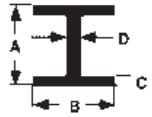
## WIDE FLANGE Stock Lengths 20'



SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W18 x 46	18.06	6.060	0.605	0.360
W18 x 50	17.99	7.495	0.570	0.355
W18 x 55	18.11	7.530	0.630	0.390
W18 x 60	18.24	7.555	0.695	0.415
W18 x 65	18.35	7.590	0.750	0.450
W18 x 71	18.47	7.635	0.810	0.495
W18 x 76	18.21	11.035	0.680	0.425
W18 x 86	18.39	11.090	0.770	0.480
W18 x 97	18.59	11.145	0.870	0.535
W18 x 106	18.73	11.200	0.940	0.590
W18 x 119	18.97	11.265	1.060	0.655
W21 x 44	20.66	6.500	0.450	0.350
W21 x 50	20.83	6.530	0.535	0.380
W21 x 57	21.06	6.555	0.650	0.405
W21 x 62	20.99	8.240	0.615	0.400
W21 x 68	21.13	8.270	0.685	0.430
W21 x 73	21.24	8.295	0.740	0.455
W21 x 83	21.43	8.355	0.835	0.515
W21 x 93	21.62	8.420	0.930	0.580
W21 x 101	21.36	12.290	0.800	0.500
W21 x 111	21.51	12.340	0.875	0.550
W21 x 122	21.68	12.390	0.960	0.600
W21 x 132	21.83	12.440	1.035	0.650
W21 x 147	22.06	12.510	1.150	0.720
W24 x 55	23.57	7.005	0.505	0.395
W24 x 62	23.74	7.040	0.590	0.430
W24 x 68	23.73	8.965	0.585	0.415
W24 x 76	23.92	8.990	0.680	0.440
W24 x 84	24.10	9.020	0.770	0.470
W24 x 94	24.31	9.065	0.875	0.515
W24 x 104	24.06	12.750	0.750	0.500
W24 x 117	24.26	12.800	0.850	0.550
W24 x 131	24.48	12.855	0.960	0.605
W24 x 146	24.74	12.900	1.090	0.650
W24 x 162	25.00	12.955	1.220	0.705
W27 x 84	26.71	9.960	0.640	0.460
W27 x 94	26.92	9.990	0.745	0.490
W27 x 102	27.09	10.015	0.830	0.515
W27 x 114	27.29	10.070	0.930	0.570
W27 x 146	27.38	13.965	0.975	0.605
W27 x 161	27.59	14.020	1.080	0.660
W27 x 178	27.81	14.085	1.190	0.725
W30 x 99	29.65	10.450	0.670	0.520
W30 x 108	29.83	10.475	0.760	0.545
W30 x 116	30.01	10.495	0.850	0.565
W30 x 124	30.17	10.515	0.930	0.585

# BEAMS

## WIDE FLANGE Stock Lengths 20'



SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W30 x 132	30.31	10.545	1.000	0.615
W30 x 173	30.44	14.985	1.065	0.655
W30 x 191	30.68	15.040	1.185	0.710
W30 x 211	30.94	15.105	1.315	0.775
W33 x 118	32.86	11.480	0.740	0.550
W33 x 130	33.09	11.510	0.855	0.580
W33 x 141	33.30	11.535	0.960	0.605
W33 x 152	33.49	11.565	1.055	0.635
W33 x 201	33.68	15.745	1.150	0.715
W33 x 221	33.93	15.805	1.275	0.775
W33 x 241	34.18	15.860	1.400	0.830
W36 x 135	35.55	11.950	0.790	0.600
W36 x 150	35.85	11.975	0.940	0.625
W36 x 160	36.01	12.000	1.020	0.650
W36 x 170	36.17	12.030	1.100	0.680
W36 x 182	36.33	12.075	1.180	0.725
W36 x 194	36.49	12.115	1.260	0.765
W36 x 210	36.69	12.180	1.360	0.830
W36 x 230	35.90	16.470	1.260	0.760
W36 x 245	36.08	16.510	1.350	0.800
W36 x 260	36.26	16.550	1.440	0.840
W36 x 280	36.52	16.595	1.570	0.885
W36 x 300	36.74	16.655	1.680	0.945



# STANDARD CHANNELS

## STANDARD STRUCTURAL SIZES

Stock Lengths 20'

A DEPTH IN INCHES	WT. LBS. PER FT.	B FLANGE WIDTH INCHES	C WEB THICKNESS INCHES
3	4.1	1.410	.170
3	5.0	1.498	.258
3	6.0	1.596	.356
4	5.4	1.580	.180
4	6.25	1.647	.247
4	7.25	1.720	.320
5	6.7	1.750	.190
5	9.0	1.885	.325
6	8.2	1.920	.200
6	10.5	2.034	.314
6	13.0	2.157	.437
7	9.8	2.090	.210
7	12.25	2.194	.314
7	14.75	2.299	.419
8	11.5	2.260	.220
8	13.75	2.343	.303
8	18.75	2.527	.487
9	13.4	2.430	.230
9	15.0	2.485	.285
9	20.0	2.648	.448
10	15.3	2.600	.240
10	20.0	2.739	.379
10	25.0	2.886	.526
10	30.0	3.033	.673
12	20.7	2.940	.280
12	25.0	3.047	.387
12	30.0	3.170	.510
15	33.9	3.400	.400
15	40.0	3.520	.520
15	50.0	3.716	.716



# JUNIOR CHANNELS

## JUNIOR STRUCTURAL SIZES

Stock Lengths 20'

A DEPTH IN INCHES	WT. LBS. PER FT.	FLANGE WIDTH INCHES	WEB THICKNESS INCHES
3	7.1	1.938	.312
4	13.8	2.500	.500
6	12.0	2.497	.310
6	15.3	3.500	.340
6	16.3	3.000	.375
6	18.0	3.504	.379
7	17.6	3.000	.375
7	19.1	3.452	.352
7	22.7	3.603	.503
8	8.5	1.874	.179
8	18.7	2.978	.353
8	20.0	3.025	.400
8	21.4	3.450	.375
8	22.8	3.502	.427
9	23.9	3.450	.400
9	25.4	3.500	.450
10	6.5	1.127	.152
10	8.4	1.500	.170
10	21.9	3.450	.325
10	24.9	3.402	.377
10	28.5	3.950	.425
10	33.6	4.100	.575
12	10.6	1.500	.190
12	30.9	3.450	.450
12	35.0	3.767	.467
12	37.0	3.600	.600
12	40.0	3.890	.590
12	45.0	4.012	.712
12	50.0	4.135	.835
13	31.8	4.000	.375
13	40.0	4.185	.560
13	50.0	4.412	.787



# JUNIOR CHANNELS

## JUNIOR STRUCTURAL SIZES

Stock Lengths 20'

A DEPTH IN INCHES	WT. LBS. PER FT.	FLANGE WIDTH INCHES	WEB THICKNESS INCHES
18	42.7	3.950	450
18	45.8	4.000	500
18	51.9	4.100	600
18	58.0	4.200	700

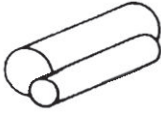
## BAR CHANNELS

Stock Lengths 20'

SIZE IN INCHES A B C	WT. LBS. PER FOOT	SIZE IN INCHES A B C	WT. LBS. PER FOOT
3/4 x 3/8 x 1/8	.56	1 1/2 x 9/16 x 3/16	1.44
		1 1/2 x 3/4 x 1/8	1.17
1 x 1/2 x 1/8	.84	2 x 1/2 x 1/8	1.43
		2 x 9/16 x 3/16	1.86
		2 x 5/8 x 1/4	2.28
		2 x 1 x 1/8	1.78
1 1/4 x 1/2 x 1/8	1.01	2 x 1 x 3/16	2.59
1 1/2 x 1/2 x 1/8	1.12	2 1/2 x 5/8 x 3/16	2.27

# ROUND BARS

## Hot or Cold Rolled

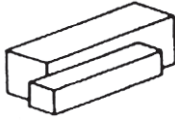


**Stock Lengths 12', 20'**

SIZE IN INCHES	WT. LBS. PER FT.	SIZE IN INCHES	WT. LBS. PER FT.
3/16	0.094	3	24.03
1/4	0.167	3 1/8	26.08
5/16	0.261	3 1/4	28.21
3/8	0.376	3 3/8	30.42
7/16	0.511	3 1/2	32.71
1/2	0.668	3 5/8	35.09
9/16	0.845	3 3/4	37.55
5/8	1.043	3 7/8	40.10
11/16	1.262		
3/4	1.502	4	42.73
13/16	1.763	4 1/8	45.44
7/8	2.044	4 1/4	48.23
15/16	2.347	4 3/8	51.11
		4 1/2	54.08
1	2.670	4 5/8	57.12
1 1/8	3.379	4 3/4	60.25
1 1/4	4.172		
1 3/8	5.049	5	66.76
1 1/2	6.008	5 1/4	73.60
1 5/8	7.051	5 1/2	80.78
1 3/4	8.178	5 3/4	88.29
2	10.68	6	96.13
2 1/8	12.06	6 1/8	100.18
2 1/4	13.52	6 1/4	104.31
2 3/8	15.06	6 1/2	112.82
2 1/2	16.69	6 3/4	121.67
2 5/8	18.40		
2 3/4	20.19	7	130.85
2 7/8	22.07	7 1/4	140.36
		7 1/2	150.21
		7 3/4	160.39
		8	170.90

# SQUARE BAR

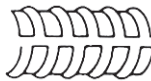
## Hot or Cold Rolled



**Stock Lengths 12', 20'**

SIZE IN INCHES	WT. LBS. PER FT.	SIZE IN INCHES	WT. LBS. PER FT.
1/4	0.213	1	3.40
5/16	0.332	1 1/8	4.30
3/8	0.478	1 1/4	5.31
7/16	0.651	1 3/8	6.43
1/2	0.850	1 1/2	7.65
9/16	1.08	1 5/8	8.98
5/8	1.33	1 3/4	10.41
11/16	1.61	1 7/8	11.95
3/4	1.91		
13/16	2.25	2	13.60
7/8	2.60	2 1/4	17.21
		2 1/2	21.25
		2 3/4	25.71
		3	30.60

# CONCRETE REBARS



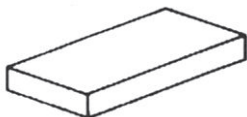
**Stock Lengths 20'**

SIZE	WT./FT.
1/4" #2	.167
3/8" #3	.376
1/2" #4	.668
5/8" #5	1.043
3/4" #6	1.502
7/8" #7	2.044
1" #8	2.670



# FLAT BARS

## Hot Rolled

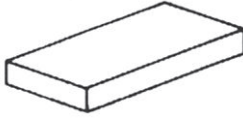


**Stock Lengths 20'**

SIZE IN INCHES	WT. LBS. PER FT.	SIZE IN INCHES	WT. LBS. PER FT.
<b>1/8 - INCH x</b>		<b>3/16 - INCH x</b>	
3/8	.159	3/8	.239
1/2	.213	1/2	.319
5/8	.266	5/8	.398
3/4	.319	3/4	.478
7/8	.372	7/8	.558
1	.425	1	.638
1 1/8	.478	1 1/8	.717
1 1/4	.531	1 1/4	.797
1 1/2	.638	1 1/2	.956
1 3/4	.744	1 3/4	1.116
2	.850	2	1.275
2 1/4	.956	2 1/4	1.434
2 1/2	1.063	2 1/2	1.594
2 3/4	1.169	2 3/4	1.753
3	1.275	3	1.913
3 1/2	1.488	3 1/2	2.231
4	1.700	4	2.550
4 1/2	1.913	4 1/2	2.869
5	2.125	5	3.188
6	2.550	6	3.825
8	3.400	8	5.100
10	4.250	10	6.375
12	5.100	12	7.650

# FLAT BARS

## Hot Rolled

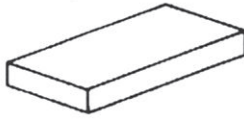


### Stock Lengths 20'

THICKNESS & WIDTH INCHES	WT. LBS. PER FT.	THICKNESS & WIDTH INCHES	WT. LBS. PER FT.	THICKNESS & WIDTH INCHES	WT. LBS. PER FT.
<b>1/4 x</b>		<b>5/16 x (cont'd)</b>		<b>7/16 x</b>	
3/8	.319	2	2.125	3/4	1.116
1/2	.425	2 1/4	2.391	7/8	1.302
5/8	.531	2 1/2	2.656	1	1.488
3/4	.638	2 3/4	2.922	1 1/4	1.859
7/8	.744	3	3.188	1 1/2	2.231
1	.850	3 1/4	3.453	1 3/4	2.603
1 1/8	.956	3 1/2	3.719	2	2.975
1 1/4	1.063	4	4.250	2 1/4	3.347
1 3/8	1.169	4 1/2	4.781	2 1/2	3.719
1 1/2	1.275	5	5.313	3	4.463
1 5/8	1.381	5 1/2	5.840	3 1/2	5.206
1 3/4	1.488	6	6.375	4	5.950
2	1.700	7	7.440	4 1/2	6.694
2 1/4	1.913	7 1/2	7.970	5	7.438
2 1/2	2.125	8	8.500	6	8.925
2 3/4	2.338				
3	2.550	<b>3/8 x</b>		<b>1/2 x</b>	
3 1/4	2.763	1/2	.638	5/8	1.063
3 1/2	2.975	5/8	.797	3/4	1.275
3 3/4	3.188	3/4	.956	7/8	1.488
4	3.400	7/8	1.116	1	1.700
4 1/4	3.613	1	1.275	1 1/8	1.913
4 1/2	3.825	1 1/8	1.434	1 1/4	2.125
5	4.250	1 1/4	1.594	1 3/8	2.338
5 1/2	4.675	1 3/8	1.753	1 1/2	2.550
6	5.100	1 1/2	1.913	1 5/8	2.763
6 1/2	5.530	1 5/8	2.072	1 3/4	2.975
7	5.950	1 3/4	2.231	2	3.400
7 1/2	6.380	2	2.550	2 1/2	4.250
8	6.800	2 1/4	2.869	2 3/4	4.675
		2 1/2	3.188	3	5.100
		2 3/4	3.506	3 1/4	5.525
		3	3.825	3 1/2	5.950
		3 1/4	4.144	4	6.800
		3 1/2	4.463	4 1/2	7.650
		4	5.100	5	8.500
		4 1/2	5.738	5 1/2	9.350
		5	6.375	6	10.200
		5 1/2	7.013	7	11.900
		6	7.650	8	13.600
		7	8.930		
		8	10.200		
<b>5/16 x</b>					
1/2	.531				
5/8	.664				
3/4	.797				
7/8	.930				
1	1.063				
1 1/8	1.195				
1 1/4	1.328				
1 3/8	1.461				
1 1/2	1.594				
1 3/4	1.859				

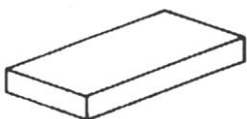
# FLAT BARS

## Hot Rolled



**Stock Lengths 20'**

THICKNESS & WIDTH INCHES	ESTIMATED WT. LBS. PER FOOT	THICKNESS & WIDTH INCHES	ESTIMATED WT. LBS. PER FOOT	THICKNESS & WIDTH INCHES	ESTIMATED WT. LBS. PER FOOT
<b>5/8 x</b>		<b>3/4 x (cont'd)</b>		<b>1 x (cont'd)</b>	
3/4	1.594	5	12.750	5 1/2	18.700
7/8	1.859	5 1/2	14.020	6	20.400
1	2.125	6	15.300	7	23.800
1 1/8	2.391	7	17.850	8	27.200
1 1/4	2.656	8	20.400		
1 3/8	2.922			<b>1 1/8 x</b>	
1 1/2	3.188			2	7.650
1 5/8	3.453	<b>7/8 x</b>		3	11.480
1 3/4	3.719	1	2.975	4	15.300
2	4.250	1 1/4	3.719	5	19.130
2 1/4	4.781	1 3/8	4.091	6	22.950
2 1/2	5.313	1 1/2	4.463		
2 3/4	5.844	1 3/4	5.206	<b>1 1/4 x</b>	
3	6.375	2	5.950	1 1/2	6.375
3 1/4	6.906	2 1/4	6.694	1 3/4	7.438
3 1/2	7.438	2 1/2	7.438	2	8.500
4	8.500	2 3/4	8.181	2 1/4	9.563
4 1/2	9.563	3	8.925	2 1/2	10.630
5	10.630	3 1/2	10.410	2 3/4	11.690
5 1/2	11.690	4	11.900	3	12.750
6	12.750	4 1/2	13.390	3 1/4	13.810
7	14.870	5	14.870	3 1/2	14.870
8	17.000	5 1/2	16.360	4	17.000
		6	17.850	4 1/2	19.120
		7	20.830	5	21.250
		8	23.800	5 1/2	23.370
				6	25.500
<b>3/4 x</b>				7	29.750
7/8	2.231			8	34.000
1	2.550	<b>1 x</b>			
1 1/8	2.869	1 1/4	4.250	<b>1 1/2 x</b>	
1 1/4	3.188	1 1/2	5.100	2	10.20
1 1/2	3.825	1 3/4	5.950	2 1/4	11.48
1 5/8	4.144	2	6.800	2 1/2	12.75
1 3/4	4.463	2 1/4	7.650	2 3/4	14.03
2	5.100	2 1/2	8.500	3	15.30
2 1/4	5.738	2 3/4	9.350	3 1/2	17.85
2 1/2	6.375	3	10.200		
2 3/4	7.013	3 1/4	11.050		
3	7.650	3 1/2	11.900		
3 1/4	8.288	4	13.600		
3 1/2	8.925	4 1/2	15.300		
4	10.200	5	17.000		
4 1/4	11.470				

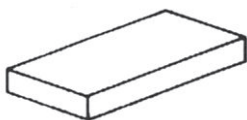


# FLAT BARS

## HOT ROLLED

### Stock Lengths 20'

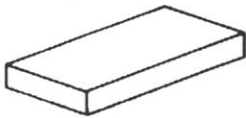
THICKNESS & WIDTH INCHES	WT. LBS. PER FT.	THICKNESS & WIDTH INCHES	ESTIMATED WT. LBS. PER FOOT	THICKNESS & WIDTH INCHES	WT. LBS. PER FT.
<b>1½ x (cont'd)</b>		<b>2 x</b>		<b>3 x</b>	
4	20.40	2½	17.00	4	40.80
4½	22.95	3	20.40	4½	45.90
5	25.50	3½	23.80	5	51.00
5½	28.05	4	27.20	6	61.20
6	30.60	4½	30.60	8	81.60
7	35.70	5	34.00		
8	40.80	6	40.80		
		7	47.60		
		8	54.40		



# FLAT - UNIVERSAL MILL PLATES

**Stock Lengths 20'**

THICKNESS & WIDTH INCHES	WT. LBS. PER FT.	THICKNESS & WIDTH INCHES	WT. LBS. PER FT.
<b>¼ x 9</b>	7.65	<b>½ x 9</b>	15.30
10	8.50	10	17.00
11	9.35	12	20.40
12	10.20	14	23.80
13	11.05	16	27.20
14	11.90	18	30.60
15	12.75	20	34.00
16	13.60	22	37.40
18	15.30	24	40.80
20	17.00		
24	20.40	<b>⅝ x 9</b>	19.13
		10	21.25
<b>⅜ x 9</b>	9.56	12	25.50
10	10.63	14	29.75
12	12.75	16	34.00
14	14.88	18	38.25
16	17.00	20	42.50
18	19.13	22	46.75
20	21.25	24	51.00
22	23.38		
24	25.50	<b>¾ x 9</b>	22.95
		10	25.50
<b>½ x 9</b>	11.48	12	30.60
10	12.75	14	35.70
11	14.03	16	40.80
12	15.30	18	45.90
13	16.58	20	51.00
14	17.85	22	56.10
16	20.40	24	61.20
18	22.95		
20	25.50	<b>⅞ x 10</b>	29.75
22	28.05	12	35.70
24	30.60	14	41.65
		16	47.60
		18	53.55
		20	59.50
		24	71.40



## FLAT - UNIVERSAL MILL PLATES

Stock Lengths 20'

THICKNESS & WIDTH INCHES	WEIGHT, LBS. PER FOOT	THICKNESS & WIDTH INCHES	WEIGHT, LBS. PER FOOT	
<b>1 x 9</b>	30.60	<b>1½ x 10</b>	51.00	
	34.00		12	61.20
	40.80		14	71.40
	47.60		16	81.60
	54.40		18	91.80
	61.20		20	102.0
	68.00		24	122.4
	74.80			
	81.60	<b>2 x 9</b>	61.20	
<b>1¼ x 9</b>	38.25		10	68.00
	42.50		12	81.60
	51.00			
	59.50			
	68.00			
	76.50			
	85.00			
	102.00			



## ROUND TUBING

Welded & Seamless (DOM)  
Stock Lengths 20'

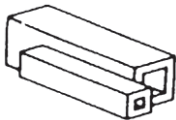
O.D. SIZE IN INCHES	WALL	I.D.	WT. PER FOOT
3/8	.049	.277	.170
1/2	.065	.370	.302
5/8	.065	.495	.388
3/4	.065	.620	.475
	.120	.510	.807
	.188	.375	1.128
7/8	.065	.745	.562
1	.065	.870	.649
	.095	.810	.918
	.120	.760	1.128
	.188	.625	1.630
	.250	.500	2.003
1½	.065	.995	.735
	.188	.750	1.881
1¼	.065	1.120	.822
	.095	1.060	1.172
	.120	1.010	1.448
	.188	.875	2.131



## ROUND TUBING

Stock Lengths 20'

O.D. SIZE IN INCHES	WALL THICKNESS	I.D.	WT. PER FOOT
1½	.065	1.370	.996
	.095	1.310	1.426
	.120	1.260	1.769
1⅝	.120	1.385	1.929
	.134	1.375	2.134
1¾	.065	1.620	1.170
	.095	1.560	1.679
	.120	1.510	2.089
2	.065	1.870	1.343
	.095	1.810	1.933
	.120	1.760	2.409
2¼	.120	2.010	2.730
2½	.120	2.260	3.050
3	.065	2.870	2.037
	.120	2.760	3.691
4	.065	3.870	2.732

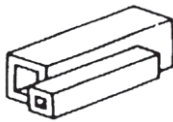


## SQUARE TUBING

Stock Lengths 20'

O.D. SIZE	WALL THICKNESS	LBS. / FT.
1/2	.065	.384
5/8	.065	.495
3/4	.065	.605
	.083	.752
1	.065	.826
	.072	.905
	.083	1.04
	.109	1.32
	.120	1.44
1¼	.065	1.05
	.083	1.32
	.109	1.69
	.120	1.84
	.188	2.40

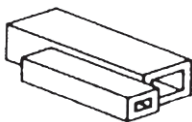
# SQUARE TUBING



## Stock Lengths 20'

O.D. SIZE	WALL THICKNESS	LBS./FT.	O.D. SIZE	WALL THICKNESS	LBS./FT.
1½	.065	1.27	4	.083	4.42
	.083	1.60		.120	6.53
	.109	2.06		.188	9.59
	.120	2.25		.250	12.51
	.188	3.04		.312	15.33
	.250	3.70		.375	18.02
				.500	22.98
1¾	.065	1.48	5	.188	12.14
	.109	2.43		.250	15.91
2	.065	1.71		.312	19.58
	.083	2.16	.375	23.12	
	.109	2.80	.500	29.78	
	.120	3.12	6	.188	14.65
	.188	4.49		.250	19.31
.250	5.71	.312		28.83	
2½	.083	2.73	.375	28.22	
	.120	3.98	.500	36.72	
	.188	5.75	7	.188	17.13
	.250	7.41		.250	22.71
3	.065	2.59		.312	28.08
	.083	3.29	.375	33.32	
	.120	4.83	.500	43.51	
	.188	7.04	8	.188	19.65
	.250	9.11		.250	26.04
.312	11.08	.312		32.33	
3½	.120	5.68	.375	38.42	
	.188	8.30	.500	50.31	
	.250	10.81	10	.188	24.65
	.312	13.19		.250	32.70
				.312	40.80
		.375		48.61	
			.500	63.91	
			12	.250	39.44
				.312	48.95
				.375	58.47
				.500	77.51

# RECTANGULAR TUBING



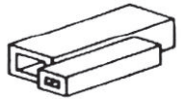
## Stock Lengths 20'

O.D. SIZE	WALL THICKNESS	LBS./FT.	O.D. SIZE	WALL THICKNESS	LBS./FT.
1 x 1/2	.065	.605	5 x 4	.188	10.84
				.250	14.21
1 1/2 x 1/2	.065	.823	6 x 2	.120	6.53
1 1/2 x 3/4	.065	.937		.188	9.59
	.120	1.640		.250	12.51
1 1/2 x 1	.065	1.05	6 x 3	.120	6.955
	.120	1.84		.188	10.84
2 x 1	.065	1.18		.250	14.21
	.083	1.60		.375	20.57
	.120	2.25			
2 x 1 1/4	.120	2.46	6 x 4	.188	12.14
2 x 1 1/2	.120	2.66		.250	15.91
2 1/2 x 1 1/2	.083	2.16		.312	19.58
	.120	3.12		.375	23.12
	.188	4.49		.500	29.78
	.250	5.59	7 x 5	.188	14.65
3 x 1	.083	2.16		.250	19.31
	.120	3.06		.312	23.83
				.375	28.22
3 x 1 1/2	.083	2.45		.500	36.72
	.120	3.48	8 x 2	.188	12.14
	.188	5.07		.250	15.91
			8 x 3	.188	13.39
3 x 2	.083	2.73		.250	17.61
	.120	3.98		.375	25.67
	.188	5.75	8 x 4	.188	14.65
	.250	7.41		.250	19.31
				.312	23.82
4 x 2	.083	3.29		.375	28.22
	.120	4.83		.500	36.72
	.188	7.04	8 x 6	.188	17.13
	.250	9.11		.250	22.71
				.312	28.08
4 x 3	.083	3.86		.375	33.32
	.120	5.68		.500	43.51
	.188	8.30	10 x 2	.188	14.65
	.250	10.81		.250	19.31
5 x 2	.120	5.68	10 x 4	.250	22.71
	.188	8.30		.375	33.32
	.250	10.81			
5 x 3	.120	6.53			
	.188	9.59			
	.250	12.51			
	.312	15.33			
	.375	18.02			



# RECTANGULAR TUBING

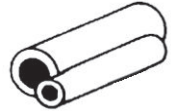
**Stock Lengths 20'**



SIZE	WALL THICKNESS	LBS./FT.	SIZE	WALL THICKNESS	LBS./FT.
10 x 6	.188	19.65	12 x 2	.188	17.13
	.250	26.04		.250	22.71
	.375	38.42			
10 x 8	.250	29.37	12 x 4	.250	26.04
	.312	36.38	12 x 6	.250	29.37
				.312	36.38
				.375	43.51

# PIPE

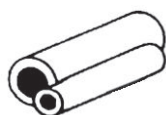
**Stock Lengths 21'**  
**Black or Galvanized**



NORMAL PIPE SIZE INCHES	OUTSIDE DIA. INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIA. INCHES	WT./FT. POUNDS
1/8	.405	10	.049	.307	.1863
		40 STD	.068	.269	.2447
		80 Ex. Hvy.	.095	.215	.3145
1/4	.540	10	.065	.410	.3297
		40 STD	.088	.364	.4248
		80 Ex. Hvy.	.119	.302	.5351
3/8	.675	10	.065	.545	.4235
		40 STD	.091	.493	.5676
		80 Ex. Hvy.	.126	.423	.7388
1/2	.840	5	.065	.710	.5383
		10	.083	.674	.6710
		40 STD	.109	.622	.8510
		80 Ex. Hvy.	.147	.546	1.088
		160	.187	.466	1.304
		XX Hvy.	.294	.252	1.714
3/4	1.050	5	.065	.920	.6838
		10	.083	.884	.8672
		40 STD	.113	.824	1.131
		80 Ex. Hvy.	.154	.742	1.474
		160	.218	.614	1.937
		XX Hvy.	.308	.434	2.441

# PIPE

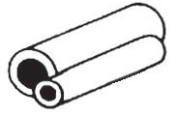
## Stock Lengths 21' Black or Galvanized



NORMAL PIPE SIZE INCHES	OUTSIDE DIA. INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIA. INCHES	LBS./FT.
1	1.315	5	.065	1.185	.8678
		10	.109	1.097	1.404
		40 STD	.133	1.049	1.679
		80 Ex. Hvy.	.179	.957	2.172
		160	.250	.815	2.844
XX Hvy.	.358	.599	3.659		
1¼	1.660	5	.065	1.530	1.107
		10	.109	1.442	1.806
		40 STD	.140	1.380	2.273
		80 Ex. Hvy.	.191	1.278	2.997
		160	.250	1.160	3.765
XX Hvy.	.382	.896	5.214		
1½	1.900	5	.065	1.770	1.274
		10	.109	1.682	2.085
		40 STD	.145	1.610	2.718
		80 Ex. Hvy.	.200	1.500	3.631
		160	.281	1.338	4.859
XX Hvy.	.400	1.100	6.408		
2	2.375	5	.065	2.245	1.604
		10	.109	2.157	2.638
		40 STD	.154	2.067	3.653
		80 Ex. Hvy.	.218	1.939	5.022
		160	.343	1.689	7.444
XX Hvy.	.436	1.503	9.029		
2½	2.875	5	.083	2.709	2.475
		10	.120	2.635	3.531
		40 STD	.203	2.469	5.793
		80 Ex. Hvy.	.276	2.323	7.661
		160	.375	2.125	10.01
XX Hvy.	.552	1.771	13.69		
3	3.500	5	.083	3.334	3.029
		10	.120	3.260	4.332
		40 STD	.216	3.068	7.576
		80 Ex. Hvy.	.300	2.900	10.25
		160	.438	2.624	14.32
XX Hvy.	.600	2.300	18.58		
3½	4.000	5	.083	3.824	3.472
		10	.120	3.760	4.973
		40 STD	.226	3.548	9.109
		80 Ex. Hvy.	.318	3.364	12.50

# PIPE

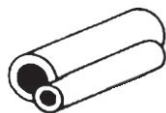
**Stock Lengths 21'  
Black or Galvanized**



NORMAL PIPE SIZE INCHES	OUTSIDE DIA. INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIA. INCHES	LBS./FT.
4	4.500	5	.083	4.334	3.915
		10	.120	4.260	5.613
		40 STD	.237	4.026	10.79
		80 Ex. Hvy.	.337	3.826	14.89
		120	.438	3.624	19.00
		160	.531	3.438	22.51
		XX Hvy.	.674	3.152	27.54
5	5.563	5	.109	5.345	6.349
		10	.134	5.295	7.770
		40 STD	.258	5.047	14.62
		80 Ex. Hvy.	.375	4.813	20.78
		120	.500	4.563	27.04
		160	.625	4.313	32.96
		XX Hvy.	.750	4.063	38.55
6	6.625	5	.190	6.407	7.585
		10	.134	6.357	9.289
		40 STD	.280	6.056	18.97
		80 Ex. Hvy.	.432	5.761	28.57
		120	.562	5.491	36.39
		160	.718	5.189	45.30
		XX Hvy.	.864	4.897	53.16
8	8.625	5	.109	8.407	9.914
		10	.148	8.329	13.40
		20	.250	8.125	22.36
		30	.277	8.071	24.70
		40 STD	.322	7.981	28.55
		60	.406	7.813	35.64
		80 Ex. Hvy.	.500	7.625	43.39
		100	.593	7.439	50.89
		120	.718	7.189	60.93
		140	.812	7.001	67.76
		XX Hvy.	.875	6.875	72.42
		160	.906	6.813	74.69
10	10.750	5	.134	10.482	15.19
		10	.165	10.420	18.70
		20	.250	10.250	28.04
		30	.307	10.136	34.24
		40 STD	.365	10.020	40.48
		60 Ex. Hvy.	.500	9.750	54.74
		80	.593	9.564	64.33
		100	.718	9.224	76.93
		120	.843	9.064	89.20

# PIPE

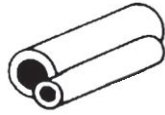
## Stock Lengths 21' Black or Galvanized



NORMAL PIPE SIZE INCHES	OUTSIDE DIA. INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIA. INCHES	LBS./FT.		
12	12.725	5	.165	12.420	22.18		
		10	.180	12.390	24.20		
		20	.250	12.250	33.38		
		30	.330	12.090	43.77		
		STD	.375	12.000	49.56		
		40	.406	11.938	53.53		
		Ex. Hvy.	.500	11.750	65.42		
		60	.562	11.626	73.16		
		80	.687	11.376	88.51		
		100	.843	11.064	107.2		
		120 XX Hvy.	1.000	10.750	125.5		
		140	1.125	10.500	139.7		
		160	1.312	10.126	160.3		
14	14.000	10	.250	13.500	36.71		
		20	.312	13.376	45.68		
		30 STD	.375	13.250	54.57		
		40	.438	13.124	63.37		
		Ex. Hvy.	.500	13.000	72.09		
		60	.593	12.814	84.91		
		80	.750	12.500	106.1		
		100	.937	12.126	130.7		
		120	1.093	11.814	150.7		
		140	1.250	11.500	170.2		
		160	1.406	11.188	189.1		
		16	16.000	10	.250	15.500	42.05
				20	.312	15.376	52.36
30 STD	.375			15.250	62.58		
40 Ex. Hvy.	.500			15.000	82.77		
60	.656			14.688	107.5		
80	.843			14.314	136.5		
100	1.031			13.938	164.8		
120	1.218			13.564	192.3		
140	1.438			13.124	223.5		
160	1.593			12.814	245.1		
18	18.000			10	.250	17.500	47.39
		20	.312	17.376	59.03		
		30	.438	17.124	82.06		
		40	.562	16.876	104.8		
		60	.750	16.500	138.2		
		80	.937	16.126	170.8		
		100	1.156	15.688	208.0		
		120	1.375	15.250	244.1		

# PIPE

## Stock Lengths 21' Black or Galvanized



NORMAL PIPE SIZE INCHES	OUTSIDE DIA. INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIA. INCHES	LBS./FT.
18	18.000	140	1.562	14.876	274.2
		160	1.781	14.438	308.5
20	20.000	10	.250	19.500	52.73
		20	.375	19.250	78.60
		30	.500	19.000	104.1
		40	.593	18.814	122.9
		60	.812	18.376	166.4
		80	1.031	17.938	208.9
		100	1.281	17.438	256.1
		120	1.500	17.000	296.4
		140	1.750	16.500	341.1
		160	1.968	16.064	379.0
24	24.000	10	.250	23.500	63.41
		20	.375	23.250	94.62
		30	.562	22.876	140.8
		40	.687	22.626	171.2
		60	.968	22.064	238.1
		80	1.218	21.564	296.4
		100	1.531	20.938	367.4
		120	1.812	20.376	429.4
		140	2.062	19.876	483.1
		160	2.343	19.314	541.9
30	30.000	10	.312	29.376	98.9
		20	.500	29.000	157.5
		30	.625	28.750	196.1
36	36.000	STD	.375	35.250	142.7
		Ex. Hvy.	.500	35.000	189.6

# SHEETS

## Black or Galvanized



**GAUGE & SIZE IN  
INCHES & LBS.  
PER SQ. FT.**

**WT. PER  
SHEET**

**GAUGE & SIZE IN  
INCHES & LBS.  
PER SQ. FT.**

**WT. PER  
SHEET**

**7 ga. (.1793") 7.5 lb.**  
48 x 96            240.00  
48 x 120          300.00

**11 ga. (.1196") 5.0 lb.**  
48 x 96            160.00  
48 x 120          200.00

**8 ga. (.1644") 6.875 lb.**  
48 x 96            220.00  
48 x 120          275.00

**12 ga. (.1046") 4.375 lb.**  
48 x 96            140.00  
48 x 120          175.00

**10 ga. (.1345") 5.625 lb.**  
48 x 96            180.00  
48 x 120          225.00

**14 ga. (.0747") 3.125 lb.**  
48 x 96            100.00  
48 x 120          125.00

# CORRUGATED SHEETS



Materials						MAXIMUM RECOMMENDED SPANS		
Aluminum			Galvanized Steel			Simple Roof Span	Intermediate Roof Span	Walls 15 PSF
Thickness	S <sup>3</sup>	#/Lineal Ft.	Thickness	S <sup>3</sup>	#/Lineal Ft.			
Utility	.023	.58				2' - 4"	2' - 7"	2' - 10"
.019	.025	.63	Utility	.020	1.5	2' - 8"	2' - 10"	3' - 0"
.024	.032	.79	28 ga	.025	1.8	3' - 3"	3' - 7"	3' - 10"
			26 ga	.029	2.1	3' - 9"	4' - 2"	4' - 10"
			24 ga	.037	2.7	4' - 6"	5' - 0"	5' - 6"

# SHEETS

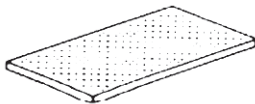
## Black or Galvanized



GAUGE & SIZE IN INCHES & LBS. PER SQ. FT.	WT. PER SHEET	GAUGE & SIZE IN INCHES & LBS. PER SQ. FT.	WT. PER SHEET
<b>16 ga. (.0598") 2.5 lb.</b>		<b>22 ga. (.0299") 1.25 lb.</b>	
48 x 96	80.00	48 x 96	160.00
48 x 120	100.00	48 x 120	200.00
<b>18 ga. (.0478") 2.0 lb.</b>		<b>24 ga. (.0239") 1.0 lb.</b>	
48 x 96	64.00	48 x 96	140.00
48 x 120	80.00	48 x 120	175.00
<b>20 ga. (.0359") 1.5 lb.</b>		<b>26 ga. (.0179") .750 lb.</b>	
48 x 96	48.00	48 x 96	24.00
48 x 120	60.00	48 x 120	30.00
		<b>28 ga. (.0149") .625 lb.</b>	
		48 x 96	24.99
		48 x 120	31.24

# FLOOR PLATES

(Diamond Tread)



**Stock Size 4' X 8' and 4' X 10'**

<b>WT. PER SQ. INCH</b>	<b>WT. PER SQ. FOOT</b>	<b>WT. PER SQ. INCH</b>	<b>WT. PER SQ. FOOT</b>
16 ga. .0208	3.00	1/4 .0782	11.26
14 ga. .0260	3.75	5/16 .0959	13.81
12 ga. .0365	5.25	3/8 .1137	16.37
1/8 .0427	6.15	1/2 .1491	21.47
3/16 .0605	8.71	3/4 .2200	31.68

**ALUMINUM  
DIAMOND TREAD  
PLATE STOCKED IN  
ALL SIZES**



# SMOOTH PLATES

## WEIGHTS AND MOST COMMON SIZES



### STOCK SIZE 4' X 8' AND 4' X 10'

WT. PER SQ. FOOT		WT. PER SQ. FOOT	
3/16	7.66	1	40.84
1/4	10.21	1 1/8	45.94
5/16	12.76	1 1/4	51.05
3/8	15.31	1 3/8	56.16
7/16	17.87	1 1/2	61.26
1/2	20.42	1 5/8	66.36
9/16	22.97	1 3/4	71.47
5/8	25.52	1 7/8	76.57
11/16	28.08	2	81.68
3/4	30.63		
7/8	35.73		



# RAISED EXPANDED METAL CARBON STEEL

SIZE IN. AND STYLE NO.	WIDTH AND LENGTH INCHES	EST. LBS. SQ. FT.	OPENING SIZE INCHES A x B	STRAND INCHES C x D
1/4-No. 20	48 x 96	.86	.167 x .747	.036 x .073
1/4-No. 18	48 x 96	1.14	.155 x .703	.048 x .073
1/2-No. 20	48 x 96	.43	.440 x .968	.036 x .066
1/2-No. 18	48 x 96	.70	.393 x .920	.048 x .081
1/2-No. 16	48 x 96 48 x 120	.84	.375 x .906	.060 x .078
1/2-No. 13	48 x 96	.147	.355 x .826	.090 x .091
3/4-No. 16	48 x 96 48 x 120	.50	.844 x 1.692	.060 x .092
3/4-No. 13	48 x 96	.80	.812 x 1.635	.090 x .098
3/4-No. 10	48 x 96	1.20	.786 x 1.592	.090 x 1.48
3/4-No. 9	48 x 96 48 x 120	1.80	.740 x 1.514	.134 x .148
1-No. 16	48 x 96 48 x 120	.44	.924 x 1.948	.060 x .189
1½-No. 16	48 x 96 48 x 120	.40	1.253 x 2.608	.060 x .107
1½-No. 13	48 x 96 48 x 120	.60	1.233 x 2.548	.090 x .107
1½-No. 10	48 x 96 48 x 120	.60	1.210 x 2.530	.090 x .140
1½-No. 9	48 x 96 48 x 120	1.20	1.165 x 2.446	.134 x .143
1½-No. 6	48 x 96	2.50	1.060 x 2.250	.198 x .203
2-No. 9	48 x 96	.90	1.562 x 3.375	.134 x .144

# FLAT EXPANDED METAL

## CARBON STEEL



SIZE IN. AND STYLE NO.	WIDTH AND LENGTH INCHES	EST. LBS. SQ.FT.	OPENING SIZE INCHES A x B	STRAND INCHES C x D
1/4-No.20	48 x 96	.82	.094 x .688	.029 x .086
1/4-No.18	48 x 96	1.08	.094 x .688	.042 x .080
1/2-No.20	48 x 96	.40	.261 x 1.00	.039 x .074
1/2-No.18	48 x 96 48 x 120	.66	.261 x 1.00	.039 x .095
1/2-No.16	48 x 96 48 x 120	.80	.250 x 1.00	.050 x .089
1/2-No.13	48 x 96 48 x 120	1.40	.250 x 1.00	.070 x .111
3/4-No.16	48 x 96 48 x 120	.47	.750 x 1.781	.048 x .110
3/4-No.14	48 x 96 48 x 120	.63	.688 x 1.781	.061 x .114
3/4-No.13	48 x 96 48 x 120	.76	.688 x 1.781	.070 x .137
3/4-No.9	48 x 96 48 x 120	1.71	.562 x 1.688	.120 x .157
1 - No.16	48 x 96	.41	.780 x 2.060	.048 x .106
1½-No.16	48 x 96	.29	1.150 x 3.20	.048 x .090
1½-No.13	48 x 96 48 x 120	.38 .57	1.062 x 2.75 1.062 x 2.75	.048 x .127 .048 x .130
1½-No.9	48 x 96 48 x 120	1.14	1.000 x 2.562	.110 x .165

# GRATING

## EXPANDED METAL GRATING

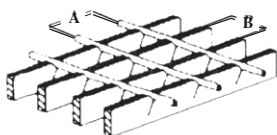
### RAISED CARBON STEEL



EST. WT. LBS. PER SQ. FT.	STANDARD SHEET SIZE		DIAMOND OPENINGS WIDTH BY LENGTH A x B	STRAND SIZE THICKNESS BY WIDTH C x D
	WIDTH INCHES	LENGTH INCHES		
4.27	48, 72	96	1.036 x 2.969	.250 x .295
3.14	48, 72	96, 120	1.657 x 4.903	.250 x .308
3.0	48, 72	96	1.041 x 3.732	.179 x .267
	72	120, 144	1.041 x 3.732	.179 x .267
4.0	48, 60, 72	96, 120	.975 x 3.594	.215 x .297
5.0	48	96, 120	.950 x 3.400	.215 x .371
6.25	48, 72	96, 144	.915 x 3.460	.312 x .346

**NOTE:** All expanded metal dimensions and weights are approximate and subject to mill tolerance.

## BAR GRATING



**WELDED**  
Typical Dimensions  
Inches

Types	A	B
Standard space pattern .....	4	1 <sup>3</sup> / <sub>16</sub>

BAR SIZE, IN.	BAR SIZE, IN.	BAR SIZE, IN.	BAR SIZE, IN.
1/8 x 3/4	3/16 x 1	1/8 x 1 <sup>1</sup> / <sub>2</sub>	3/16 x 2
3/16 x 3/4	1/8 x 1 <sup>1</sup> / <sub>4</sub>	3/16 x 1 <sup>1</sup> / <sub>2</sub>	3/16 x 2 <sup>1</sup> / <sub>4</sub>
1/8 x 1	3/16 x 1 <sup>1</sup> / <sub>4</sub>	3/16 x 1 <sup>3</sup> / <sub>4</sub>	

# FORMULAS

## GEOMETRIC FORMULAS

### CIRCLE

Area = Square of Diameter x .7854 or Square of Radius x 3.1416

Circumferences = diameter x 3.1416

Diameter = Circumference x .3183

Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

### SQUARE

Area = Square of Side

Diagonal = Side x 1.4142

Side = Diagonal x .7071

### SQUARE AND CIRCLE WITH EQUAL AREA

Side of Square = Diameter of Circle x .7071 or Circumference of Circle x .2251

Diameter of Circle = Side of Square x 1.128

Circumference of Circle = Side of Square x 3.545

### RECTANGLE

Area = Length x Width

Diagonal = Square root of sum of squares of Width and Length

### TRIANGLE

Area = Base x 1/2 of Perpendicular Height

### HEXAGON (Equal sides and angles)

Area = Square of Distance across Flats x.866 or Square of Side x 2.598

Side = 1/2 of Diagonal or Distance across Flats x .577

Diagonal = Distance across Flats x 1.155 or Side x 2

### OCTAGON (Equal sides and angles)

Area = Square of Distance across Flats x.828 or Square of Side x 4.828

Side = Diagonal x .383 or Distance across Flats x .414

Diagonal = Distance across Flats x 1.082 or Side x 2.613

### SPHERE

Area of Surface = Square of Diameter x 3.1416

Volume = Cube of Diameter x .5236

### CUBE

Area of Surface = Square of Side x 6

Volume = Cube of Side

Diagonal = Side x 1.732

### CYLINDER

Area of Curved Surface = Diameter x Length 3.1416

Volume = Square of Diameter x Length x .7854

### CONE

Area of Curved Surface = Diameter of Base x Slant Height x 1.5708

Volume = Diameter of Based Squared x Perpendicular Height x .2618 or

Area of Base x 1/3 Perpendicular Height

### PYRAMID

Lateral Surface Area (not incl. base) = Perimeter of Base x 1/2 Slant Height

Volume = Area of Base x 1/3 Perpendicular Height



# DECIMAL EQUIVALENTS

	<u>INCHES</u>
$\frac{1}{32}$	$\frac{1}{64}$ .015625
	$\frac{3}{64}$ .03125
$\frac{1}{16}$	$\frac{5}{64}$ .046875
	$\frac{7}{64}$ .0625
$\frac{3}{32}$	$\frac{9}{64}$ .078125
	$\frac{11}{64}$ .09375
$\frac{1}{8}$	$\frac{13}{64}$ .109375
	$\frac{15}{64}$ .125
$\frac{5}{32}$	$\frac{17}{64}$ .140625
	$\frac{19}{64}$ .15625
$\frac{3}{16}$	$\frac{21}{64}$ .171875
	$\frac{23}{64}$ .1875
$\frac{7}{32}$	$\frac{25}{64}$ .203125
	$\frac{27}{64}$ .21875
$\frac{1}{4}$	$\frac{29}{64}$ .234375
	$\frac{31}{64}$ .250
$\frac{9}{32}$	$\frac{33}{64}$ .265625
	$\frac{35}{64}$ .28125
$\frac{5}{16}$	$\frac{37}{64}$ .296875
	$\frac{39}{64}$ .3125
$\frac{11}{32}$	$\frac{41}{64}$ .328125
	$\frac{43}{64}$ .34375
$\frac{3}{8}$	$\frac{45}{64}$ .359375
	$\frac{47}{64}$ .375
$\frac{13}{32}$	$\frac{49}{64}$ .390625
	$\frac{51}{64}$ .390625
$\frac{7}{16}$	$\frac{53}{64}$ .40625
	$\frac{55}{64}$ .421875
$\frac{15}{32}$	$\frac{57}{64}$ .421875
	$\frac{59}{64}$ .4375
$\frac{1}{2}$	$\frac{61}{64}$ .4375
	$\frac{63}{64}$ .453125
	$\frac{65}{64}$ .46875
	$\frac{67}{64}$ .484375
	$\frac{69}{64}$ .484375
	$\frac{71}{64}$ .500

	<u>INCHES</u>
$\frac{17}{32}$	$\frac{33}{64}$ .515625
	$\frac{35}{64}$ .53125
$\frac{9}{16}$	$\frac{37}{64}$ .546875
	$\frac{39}{64}$ .5625
$\frac{19}{32}$	$\frac{41}{64}$ .578125
	$\frac{43}{64}$ .59375
$\frac{5}{8}$	$\frac{45}{64}$ .609375
	$\frac{47}{64}$ .625
$\frac{21}{32}$	$\frac{49}{64}$ .640625
	$\frac{51}{64}$ .65625
$\frac{11}{16}$	$\frac{53}{64}$ .671875
	$\frac{55}{64}$ .6875
$\frac{23}{32}$	$\frac{57}{64}$ .703125
	$\frac{59}{64}$ .71875
$\frac{3}{4}$	$\frac{61}{64}$ .734375
	$\frac{63}{64}$ .750
$\frac{25}{32}$	$\frac{65}{64}$ .765625
	$\frac{67}{64}$ .78125
$\frac{13}{16}$	$\frac{69}{64}$ .796875
	$\frac{71}{64}$ .8125
$\frac{27}{32}$	$\frac{73}{64}$ .828125
	$\frac{75}{64}$ .84375
$\frac{7}{8}$	$\frac{77}{64}$ .859375
	$\frac{79}{64}$ .875
$\frac{29}{32}$	$\frac{81}{64}$ .890625
	$\frac{83}{64}$ .890625
$\frac{15}{16}$	$\frac{85}{64}$ .90625
	$\frac{87}{64}$ .921875
$\frac{31}{32}$	$\frac{89}{64}$ .921875
	$\frac{91}{64}$ .9375
	$\frac{93}{64}$ .953125
	$\frac{95}{64}$ .953125
	$\frac{97}{64}$ .96875
	$\frac{99}{64}$ .96875
	$\frac{101}{64}$ .984375
	$\frac{103}{64}$ .984375
	$\frac{105}{64}$ 1.000



# PHILLIPS STEEL

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