



IRONMAN
M E T A L S I N C

**STEEL SUPPLY
CENTRE**



9834 - 60 Avenue
Edmonton, AB T6E 0C5
Phone: 780-435-5156
Fax: 780- 435-1552
email: info@ironmangroup.com

www.ironmangroup.com



PROCESSING CAPABILITIES

- Plate Shear:** 3/4" x 20'-0"
1/2" x 26'-0"
- Brake:** 1,000 ton x 24' C.N.C. ACCURPRESS
- Iron Worker:** 110 ton PEDDINGHAUS
Angle 6" x 6" x 1/2"
Round 2"
Square 1 3/4"
Hole Punch 1" Thick x 1 3/16" Diameter
(Round, Square, and Oblong)
Notch 4 1/4" x 2 1/4" Rectangular
- Sawing:** HEM 40"
C.N.C. Hyd - Mech 24"
- Thread:** 3/8" Through 2" N.C.
- Plate Rolling:** Max. 1" Thick x 120" Wide
- Flame Cutting And
Plasma Cutting:** C.N.C. M.G.
10' x 40' Table Any Multi Shape
or Straight Cutting
- Rebar Fabrication
Shapes:** 10mm Through 55mm Cut and Bend
Complete Services: Estimating, Detail Shop
Drawings and Bar Lists
- Stamp Press:** 60 Tons (Forming And Hole Punching)
Flat And Disk Washers
- Section Roll:** C.N.C. Dav 1
7" Angle, 14" Channel
6" H.S.S., 8" Pipe
8" Beam, 5" Round Bar



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**ANGLES -
BAR SIZE
SPEC A-36/44W**

Size In.	Thickness In.	Wt./Ft. lbs.
1/2 x 1/2	1/8	.38
5/8 x 5/8	1/8	.48
3/4 x 3/4	1/8	.59
	3/16	.80
7/8 x 7/8	1/8	.70
1 x 1	1/8	.80
	3/16	1.16
	1/4	1.49
1 1/4 x 1 1/4	1/8	1.01
	3/16	1.48
	1/4	1.92
1 1/2 x 1 1/2	1/8	1.23
	3/16	1.80
	1/4	2.34
	5/16	2.86
	3/8	3.35
1 3/4 x 1 3/4	1/8	1.44
	3/16	2.12
	1/4	2.77
2 x 1 1/2	1/8	1.44
	3/16	2.12
	1/4	2.77
	5/16	3.92
2 x 2	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	3/16	2.44
	1/4	3.19
2 1/2 x 2	1/8	1.86
	3/16	2.75
	1/4	3.62
	5/16	4.50
	3/8	5.30
2 1/2 x 2 1/2	1/8	2.08
	3/16	3.07
	1/4	4.10
	5/16	5.00
	3/8	5.90
	1/2	7.70

**ANGLES -
STRUCTURAL
SPEC A-36/44W**

Size In.	Thickness In.	Wt./Ft. lbs.
3 x 2	3/16	3.07
	1/4	4.1
	5/16	5.0
	3/8	5.9
	7/16	6.89
	1/2	7.7
3 x 2 1/2	1/4	4.5
	5/16	5.6
	3/8	6.6
	7/16	6.8
3 x 3	1/2	8.5
	1/8	2.5
	3/16	3.71
	1/4	4.9
	5/16	6.1
	3/8	7.2
3 1/2 x 2 1/2	7/16	8.3
	1/2	9.4
	3/16	3.7
	1/4	4.9
	5/16	6.1
3 1/2 x 3	3/8	7.2
	7/16	8.3
	1/2	9.4
	1/4	5.4
3 1/2 x 3 1/2	5/16	6.6
	3/8	7.9
	7/16	8.3
	1/2	10.2
	1/4	5.8
4 x 3	5/16	7.2
	3/8	8.5
	7/16	9.8
	1/2	11.1
	1/4	5.8
	5/8	13.6



**ANGLES -
STRUCTURAL**
SPEC A-36/44W

Size In.	Thickness In.	Wt./Ft. lbs.
4 x 3½	1/4	6.2
	5/16	7.7
	3/8	9.1
	7/16	10.6
	1/2	11.9
	5/8	14.7
4 x 4	1/4	6.6
	5/16	8.2
	3/8	9.8
	7/16	11.3
	1/2	12.8
	5/8	15.7
5 x 3	3/4	18.5
	1/4	6.6
	5/16	8.2
	3/8	9.8
	7/16	11.3
5 x 3½	1/2	12.8
	1/4	7.0
	5/16	8.7
	3/8	10.4
	7/16	12.0
5 x 5	1/2	13.6
	5/8	16.8
	3/4	19.8
	5/16	10.3
	3/8	12.3
	1/2	16.2
5 x 5	5/8	20.0
	3/4	23.6
	7/8	27.2
	1/4	7.9
	5/16	9.8
6 x 3½	3/8	11.7
	1/2	15.3
	5/16	10.3
	3/8	12.3
6 x 4	7/16	14.3
	1/2	16.2
	9/16	18.0
	5/8	20.0
	3/4	23.6
	7/8	27.2

Size In.	Thickness In.	Wt./Ft. lbs.
6 x 6	5/16	12.4
	11/32	13.7
	3/8	14.9
	7/16	17.2
	1/2	19.6
	9/16	22.1
	5/8	24.2
	3/4	28.7
7 x 4	7/8	33.1
	1	37.4
	3/8	13.6
	7/16	15.8
	1/2	17.9
7 x 4	9/16	20.0
	5/8	22.1
	3/4	26.2
	7/8	30.2
8 x 4	7/16	17.2
	1/2	19.6
	5/8	24.2
	3/4	28.7
8 x 6	7/16	20.3
	1/2	23.0
	9/16	25.7
	5/8	28.5
	3/4	33.8
8 x 6	7/8	40.1
	1	44.2
	1/2	26.4
	9/16	29.3
8 x 8	5/8	32.7
	3/4	38.9
	7/8	45.0
	1	51.0
	1-1/8	56.9

**INQUIRE ABOUT OUR TRUCK
DELIVERY FOR CONVENIENT
TRANSPORT TO YOUR
LOCATION**



STANDARD BEAMS

SPEC A-36/44W/A572-50/A992



New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ²
Old Imp.	CDN Metric		Width In.	Thickness (mean) In.		
S3	x 5.7 x 7.5	S75 x 8 x 11	3.00	2.33	.260	.170
				2.51	.260	.349
S4	x 7.7 x 9.5	S100 x 11 x 14.1	4.00	2.66	.293	.193
				2.80	.293	.326
S5	x 10.0 x 14.75	S130 x 15 x 22	5.00	3.00	.326	.214
				3.28	.326	.494
S6	x 12.5 x 17.25	S150 x 19 x 26	6.00	3.33	.359	.232
				3.57	.359	.465
S7	x 15.3 x 20.0	S180 x 22.8 x 30	7.00	3.66	.392	.252
				3.86	.392	.450
S8	x 18.4 x 23.0	S200 x 27 x 34	8.00	4.00	.425	.271
				4.17	.425	.441
S10	x 25.4 x 35.0	S250 x 38 x 52	10.00	4.66	.491	.311
				4.94	.491	.594
S12	x 31.8 x 35.0	S310 x 47 x 52	12.00	5.00	.544	.350
				5.08	.544	.428
S12	x 40.8 x 50.0	S310 x 60.7 x 74	12.00	5.25	.659	.472
				5.48	.659	.687
S15	x 42.9 x 50.0	S380 x 64 x 74	15.00	5.50	.622	.411
				5.64	.622	.550
S18	x 54.7 x 70.0	S460 x 81.4 x 104	18.00	6.00	.691	.460
				6.25	.691	.711
S20	x 66.0 x 75.0	S510 x 97.3 x 112	20.00	6.26	.795	.505
				6.38	.795	.635
S20	x 86.0 x 96.0	S510 x 127 x 141	20.30	7.06	.920	.660
				7.20	.920	.800
S24	x 80.0 x 90.0 x 100.0	S610 x 118.9 x 134 x 149	24.00	7.00	.870	.500
				7.12	.870	.625
				7.24	.870	.745
S24	x 105.9 x 120.0	S610 x 157.6 x 179	24.50	7.87	1.09	.620
				8.05	1.09	.800



WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992



New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ²
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
W4 x 13	W100 x 19	4.16	4.06	.345	.280	5.43
W5 x 16	W130 x 24	5.01	5.00	.360	.240	8.55
x 19	x 28	5.15	5.03	.430	.270	10.2
W6 x 9	W150 x 14	5.90	3.94	.215	.170	5.56
x 12	x 18	6.03	4.00	.280	.230	7.31
x 16	x 24	6.28	4.03	.405	.260	10.2
W6 x 15	W150 x 22	5.99	5.99	.260	.230	9.72
x 20	x 30	6.20	6.02	.365	.260	13.4
x 25	x 37	6.38	6.08	.455	.320	16.7
W8 x 10	W200 x 15	7.89	3.94	.205	.170	7.81
x 13	x 19	7.99	4.00	.255	.230	9.91
x 15	x 22	8.11	4.02	.315	.245	11.8
W8 x 14	W200 x 21	7.98	5.21	.250	.195	11.8
x 18	x 27	8.14	5.25	.330	.230	15.2
x 21	x 31	8.28	5.27	.400	.250	18.2
W8 x 24	W200 x 36	7.93	6.50	.400	.245	20.9
x 28	x 42	8.06	6.54	.465	.285	24.3
W8 x 31	W200 x 46	8.00	8.00	.435	.285	27.5
x 35	x 52	8.12	8.02	.495	.310	31.2
x 40	x 59	8.25	8.07	.560	.360	35.5
x 48	x 71	8.50	8.11	.685	.400	43.3
x 58	x 86	8.75	8.22	.810	.510	52.0
x 67	x 100	9.00	8.28	.935	.570	60.4
W10 x 12	W250 x 18	9.87	3.96	.210	.190	10.9
x 15	x 22	9.99	4.00	.270	.230	13.8
x 17	x 25	10.11	4.01	.330	.240	16.2
x 19	x 28	10.24	4.02	.395	.250	18.8
W10 x 16	W250 x 24	9.95	5.71	.250	.195	16.6
x 22	x 33	10.17	5.75	.360	.240	23.2
x 26	x 39	10.33	5.77	.440	.260	27.9
x 30	x 45	10.47	5.81	.510	.300	32.4
W10 x 33	W250 x 49	9.73	7.96	.435	.290	35.0
x 39	x 58	9.92	7.98	.530	.315	42.1
x 45	x 67	10.10	8.02	.620	.350	49.1
W10 x 49	W250 x 73	9.98	10.00	.560	.340	54.6
x 54	x 80	10.09	10.03	.615	.370	60.0
x 60	x 89	10.22	10.08	.680	.420	66.7
x 68	x 101	10.40	10.13	.770	.470	75.7
x 77	x 115	10.60	10.19	.870	.530	85.9
x 88	x 131	10.84	10.26	.990	.605	98.5
x 100	x 149	11.10	10.34	1.12	.680	112



WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992

New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ²
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
W12 x 14 x 16 x 19 x 22	W310 x 21	11.91	3.97	.225	.200	14.9
	x 24	11.99	3.99	.265	.220	17.1
	x 28	12.16	4.00	.350	.235	21.3
	x 33	12.31	4.03	.425	.260	25.4
W12 x 21 x 26 x 30 x 35	W310 x 31	12.04	6.45	.290	.195	26.7
	x 39	12.22	6.49	.380	.230	33.4
	x 45	12.34	6.52	.440	.260	38.6
	x 52	12.50	6.56	.520	.300	45.6
W12 x 40 x 45 x 50	W310 x 60	11.94	8.00	.515	.295	51.9
	x 67	12.06	8.04	.575	.335	58.1
	x 74	12.19	8.08	.640	.370	64.7
W12 x 53 x 58	W310 x 79	12.06	10.00	.575	.345	70.6
	x 86	12.19	10.01	.640	.360	78.0
W12 x 65 x 72 x 79 x 87 x 96 x 106 x 120 x 136 x 152 x 170 x 190	W310 x 97	12.12	12.00	.605	.390	87.9
	x 107	12.25	12.04	.670	.430	97.4
	x 118	12.38	12.08	.735	.470	107
	x 129	12.53	12.12	.810	.515	118
	x 143	12.71	12.16	.900	.550	131
	x 158	12.89	12.22	.990	.610	145
	x 179	13.12	12.32	1.10	.710	163
	x 202	13.41	12.40	1.25	.790	186
	x 226	13.71	12.48	1.40	.870	209
	x 253	14.03	12.57	1.56	.960	235
	x 283	14.38	12.67	1.74	1.06	263
W12 x 210 x 230 x 252 x 279 x 305 x 336	W310 x 313	14.72	12.80	1.90	1.18	292
	x 342	15.04	12.91	2.07	1.28	321
	x 375	15.39	12.99	2.25	1.39	351
	x 415	15.87	13.15	2.47	1.53	394
	x 454	16.34	13.23	2.70	1.63	435
	x 500	16.81	13.39	2.96	1.78	483
W14 x 22 x 26	W360 x 33	13.74	5.00	.335	.230	29.0
	x 39	13.91	5.02	.420	.255	35.3
W14 x 30 x 34 x 38	W360 x 45	13.84	6.73	.385	.270	42.0
	x 51	13.98	6.74	.455	.285	48.6
	x 57	14.10	6.77	.515	.310	54.6
W14 x 43 x 48 x 53	W360 x 64	13.66	8.00	.530	.305	62.7
	x 72	13.79	8.03	.595	.340	70.3
	x 79	13.92	8.06	.660	.370	77.8
W14 x 61 x 68 x 74 x 82	W360 x 91	13.89	10.00	.645	.375	92.2
	x 101	14.04	10.04	.720	.415	103
	x 110	14.17	10.07	.785	.450	112
	x 122	14.31	10.13	.855	.510	123



WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992



New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ³	
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.			
W14	x 90	W360 x 134	14.02	14.52	.710	.440	143
	x 99		14.16	14.56	.780	.485	157
	x 109		14.32	14.60	.860	.525	173
	x 120		14.48	14.67	.940	.590	190
	x 132		14.66	14.72	1.03	.645	209
W14	x 145	W360 x 216	14.78	15.50	1.09	.680	232
	x 159		14.98	15.56	1.19	.745	254
	x 176		15.22	15.65	1.31	.830	281
	x 193		15.48	15.71	1.44	.890	310
	x 211		15.72	15.80	1.56	.980	338
	x 233		16.04	15.89	1.72	1.07	375
	x 257		16.38	16.00	1.89	1.18	415
	x 283		16.74	16.11	2.07	1.29	459
	x 311		17.12	16.23	2.26	1.41	506
	x 342		17.54	16.36	2.47	1.54	559
	x 370		17.92	16.48	2.66	1.66	607
	x 398		18.29	16.59	2.84	1.77	656
	x 426		18.67	16.70	3.04	1.88	707
	x 455		19.02	16.84	3.21	2.02	756
	x 500		19.60	17.01	3.50	2.19	838
	x 550		20.24	17.20	3.82	2.38	931
	x 605		20.92	17.42	4.16	2.60	1040
x 665	21.64	17.65	4.52	2.83	1150		
x 730	22.42	17.89	4.91	3.07	1280		
W16	x 26	W410 x 39	15.69	5.50	.345	.250	38.4
	x 31		15.88	5.52	.440	.275	47.2
W16	x 36	W410 x 54	15.86	6.98	.430	.295	56.5
	x 40		16.01	7.00	.505	.305	64.7
	x 45		16.13	7.04	.565	.345	72.7
	x 50		16.26	7.07	.630	.380	81.0
	x 57		16.43	7.12	.715	.430	92.2
W16	x 67	W410 x 100	16.33	10.24	.665	.395	117
	x 77		16.52	10.30	.760	.455	134
	x 89		16.75	10.36	.875	.525	155
	x 100		16.97	10.42	.985	.585	175



WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992

New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ³
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
W18 x 35 x 40 x 46	W460 x 52 x 60 x 68	17.70	6.00	.425	.300	57.6
		17.90	6.02	.525	.315	68.4
		18.06	6.06	.605	.360	78.8
W18 x 41 x 45 x 50 x 55 x 60 x 65 x 71	W460 x 61 x 67 x 74 x 82 x 89 x 97 x 106	17.70	7.45	.425	.320	70.3
		17.86	7.48	.499	.335	80.5
		17.99	7.50	.570	.355	88.9
		18.11	7.53	.630	.390	98.3
		18.24	7.56	.695	.415	108
		18.35	7.59	.750	.450	117
		18.47	7.64	.810	.495	127
W18 x 76 x 86 x 97 x 106 x 119	W460 x 113 x 128 x 144 x 158 x 177	18.21	11.04	.680	.425	146
		18.39	11.09	.770	.480	166
		18.59	11.14	.870	.535	188
		18.73	11.20	.940	.590	204
		18.97	11.26	1.06	.655	231
W21 x 44 x 50 x 57	W530 x 66 x 74 x 85	20.66	6.50	.450	.350	81.6
		20.83	6.53	.535	.380	94.5
		21.06	6.56	.650	.405	111
W21 x 48 x 55 x 62 x 68 x 73 x 83 x 93	W530 x 72 x 82 x 92 x 101 x 109 x 123 x 138	20.62	8.14	.430	.350	93.8
		20.80	8.22	.522	.375	110
		20.99	8.24	.615	.400	127
		21.13	8.27	.685	.430	140
		21.24	8.30	.740	.455	151
		21.43	8.36	.835	.515	171
		21.62	8.42	.930	.580	192
W21 x 101 x 111 x 122 x 132 x 147	W530 x 150 x 165 x 182 x 196 x 219	21.36	12.29	.800	.500	227
		21.51	12.34	.875	.550	249
		21.68	12.39	.960	.600	273
		21.83	12.44	1.04	.650	295
		22.06	12.51	1.15	.720	329
W24 x 55 x 62	W610 x 82 x 92	23.57	7.00	.505	.395	114
		23.74	7.04	.590	.430	131
W24 x 56 x 61 x 68 x 76 x 84 x 94	W610 x 84 x 91 x 101 x 113 x 125 x 140	23.48	8.90	.460	.355	126
		23.56	8.93	.500	.380	136
		23.73	8.96	.585	.415	154
		23.92	8.99	.680	.440	176
		24.10	9.02	.770	.470	196
		24.31	9.06	.875	.515	222
W24 x 104 x 117 x 131 x 146 x 162	W610 x 155 x 174 x 195 x 217 x 241	24.06	12.75	.750	.500	258
		24.26	12.80	.850	.550	291
		24.48	12.86	.960	.605	329
		24.74	12.90	1.09	.650	371
		25.00	12.96	1.22	.705	414



WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992



New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. ²
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
W27 x 84	W690 x 125	26.71	9.96	.640	.460	213
	x 140	26.92	9.99	.745	.490	243
	x 152	27.09	10.02	.830	.515	267
	x 170	27.29	10.07	.930	.570	299
W27 x 146	W690 x 217	27.38	13.96	.975	.605	411
	x 240	27.59	14.02	1.08	.660	455
	x 265	27.81	14.08	1.19	.725	502
W30 x 99	W760 x 147	29.65	10.45	.670	.520	269
	x 161	29.83	10.48	.760	.545	299
	x 173	30.01	10.50	.850	.565	329
	x 185	30.17	10.52	.930	.585	355
	x 196	30.31	10.54	1.00	.615	380
W30 x 173	W760 x 257	30.44	14.98	1.06	.655	539
	x 284	30.68	15.04	1.18	.710	598
	x 314	30.94	15.10	1.31	.775	663
W33 x 118	W840 x 176	32.86	11.48	.740	.550	359
	x 193	33.09	11.51	.855	.580	406
	x 210	33.30	11.54	.960	.605	448
	x 226	33.49	11.56	1.06	.635	487
W33 x 201	W840 x 299	33.68	15.74	1.15	.715	684
	x 329	33.93	15.80	1.28	.775	757
	x 359	34.18	15.86	1.40	.830	829
W36 x 135	W920 x 201	35.55	11.95	.790	.600	439
	x 223	35.85	11.98	.940	.625	504
	x 238	36.01	12.00	1.02	.650	542
	x 253	36.17	12.03	1.10	.680	580
	x 271	36.33	12.08	1.18	.725	623
	x 289	36.49	12.12	1.26	.765	664
	x 313	36.69	12.18	1.36	.830	719
W36 x 231	W920 x 345	36.49	16.47	1.26	.760	837
	x 368	36.67	16.51	1.35	.800	895
	x 390	36.85	16.55	1.44	.840	953
	x 420	37.11	16.60	1.57	.885	1030
	x 449	37.33	16.66	1.68	.945	1110

**WE PROVIDE MILL TEST REPORTS FOR MOST
PRODUCTS ON REQUEST**



**WELDED WIDE
FLANGE BEAMS**
SPEC A-36/44W/A572-50/A992



New Designation				Depth In.	Flange		Web Thickness In.
ASTM Imp.		CDN Metric			Width In.	Thickness (mean) In.	
WWF14	x 92	WWF530	x 137	13.78	13.78	.787	.433
	x 104		x 155	13.78	13.78	.866	.551
	x 118		x 176	13.78	13.78	.984	.630
	x 128		x 192	13.78	13.78	1.100	.630
	x 142		x 212	13.78	13.78	1.180	.787
	x 159		x 238	13.78	13.78	1.380	.787
	x 177		x 263	13.78	13.78	1.570	.787
	x 211		x 315	13.78	13.78	1.970	.787
	x 258		x 385	13.78	13.78	2.360	1.180
WWF16	x 105	WWF400	x 157	15.75	15.75	.787	.433
	x 119		x 178	15.75	15.75	.866	.551
	x 135		x 202	15.75	15.75	.984	.630
	x 147		x 220	15.75	15.75	1.100	.630
	x 163		x 243	15.75	15.75	1.180	.787
	x 183		x 273	15.75	15.75	1.380	.787
	x 203		x 303	15.75	15.75	1.570	.787
	x 243		x 362	15.75	15.75	1.970	.787
	x 298		x 444	15.75	15.75	2.360	1.180
WWF18	x 119	WWF450	x 177	17.72	17.72	.787	.433
	x 134		x 201	17.72	17.72	.866	.551
	x 152		x 228	17.72	17.72	.984	.630
	x 166		x 248	17.72	17.72	1.100	.630
	x 184		x 274	17.72	17.72	1.180	.787
	x 207		x 308	17.72	17.72	1.380	.787
	x 229		x 342	17.72	17.72	1.570	.787
	x 275		x 409	17.72	17.72	1.970	.787
	x 337		x 503	17.72	17.72	2.360	1.180
WWF20	x 132	WWF500	x 197	19.69	19.69	.787	.433
	x 150		x 223	19.69	19.69	.866	.551
	x 170		x 254	19.69	19.69	.984	.630
	x 185		x 276	19.69	19.69	1.100	.630
	x 205		x 306	19.69	19.69	1.180	.787
	x 230		x 343	19.69	19.69	1.380	.787
	x 256		x 381	19.69	19.69	1.570	.787
	x 306		x 456	19.69	19.69	1.970	.787
	x 377		x 561	19.69	19.69	2.360	1.180
x 437	x 651	19.69	19.69	2.360	2.360		



WELDED WIDE FLANGE BEAMS

SPEC A-36/44W/A572-50/A992

New Designation		Depth In.	Flange		Web Thickness In.	
ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
WWF22	x 146	WWF550 x 217	21.65	21.65	.787	.443
	x 282		21.65	21.65	1.570	.787
	x 338		21.65	21.65	1.970	.787
	x 416		21.65	21.65	2.360	1.180
	x 484		21.65	21.65	2.360	2.360
WWF28	x 95	WWF700 x 141	27.56	11.81	.787	.354
	x 101		27.56	11.81	.866	.354
	x 110		27.56	11.81	.984	.354
	x 124		27.56	15.75	.866	.354
	x 136		27.56	15.75	.984	.354
	x 149		27.56	15.75	1.100	.354
WWF31	x 103	WWF800 x 154	31.50	11.81	.787	.394
	x 109		31.50	11.81	.866	.394
	x 133		31.50	15.75	.866	.394
	x 157		31.50	15.75	1.100	.394
	x 187		31.50	19.69	1.100	.394
x 223	31.50	19.69	1.380	.394		
WWF35	x 113	WWF900 x 169	35.43	11.81	.787	.433
	x 128		35.43	11.81	.984	.433
	x 142		35.43	15.75	.866	.433
	x 167		35.43	15.75	1.100	.433
	x 197		35.43	19.69	1.100	.433
	x 233		35.43	19.69	1.380	.433
	x 279		35.43	21.65	1.570	.433
WWF39	x 134	WWF1000 x 200	39.37	11.81	.787	.551
	x 163		39.37	15.75	.866	.551
	x 188		39.37	15.75	1.100	.551
	x 217		39.37	19.69	1.100	.551
	x 253		39.37	19.69	1.380	.551
	x 300		39.37	21.65	1.570	.551
WWF43	x 147	WWF1100 x 220	43.31	11.81	.866	.551
	x 171		43.31	15.75	.866	.551
	x 195		43.31	15.75	1.100	.551
	x 225		43.31	19.69	1.100	.551
	x 260		43.31	19.69	1.380	.551
	x 307		43.31	21.65	1.570	.551
	WWF47		x 176	WWF1200 x 263	47.24	11.81
x 203		47.24	15.75		.984	.630
x 244		47.24	19.69		1.100	.630
x 270		47.24	21.65		1.180	.630
x 326		47.24	21.65		1.570	.630



STEEL H PILES

SPEC A-36/44W/A572-50/A992



New Designation			Depth In.	Flange		Web Thickness In.	Section Modulus In. ²
ASTM Imp.	CDN Metric	Width In.		Thickness (mean) In.			
HP8 x 36	HP200 x 54	8.02	8.16	.445	.445	29.8	
HP10 x 42	HP250 x 62	9.70	10.08	.420	.415	43.4	
x 57	x 85	9.99	10.22	.565	.565	58.8	
HP12 x 53	HP310 x 79	11.78	12.04	.435	.435	66.8	
x 63	x 94	11.94	12.13	.515	.515	79.1	
x 74	x 110	12.13	12.22	.610	.605	93.8	
x 84	x 125	12.28	12.28	.685	.685	106	
x 89	x 132	12.35	12.33	.720	.720	111	
x 102	x 152	12.55	12.62	.820	.820	129	
x 117	x 174	12.77	12.87	.930	.930	149	
HP13 x 60	HP330 x 89	12.56	12.91	.461	.461	80.6	
x 73	x 109	12.76	12.99	.567	.567	98.9	
x 87	x 129	12.95	13.11	.665	.665	117	
x 100	x 149	13.15	13.19	.764	.764	134	
HP14 x 73	HP360 x 108	13.61	14.58	.505	.505	107	
x 89	x 132	13.83	14.70	.615	.615	131	
x 102	x 152	14.01	14.78	.705	.705	150	
x 117	x 174	14.21	14.88	.805	.805	172	



Imperial Designation In.	Metric Designation mm	Weight lbs./ft.
1 x 1/2 x 1/8	25.4 x 12.7 x 3.2	.80
1 1/4 x 1/2 x 1/8 x 9/16 x 3/16	31.8 x 12.7 x 3.2 x 14.3 x 4.8	1.00 1.26
1 1/2 x 1/2 x 1/8 x 9/16 x 3/16	38.1 x 12.7 x 3.2 x 14.3 x 4.8	1.13 1.44
2 x 1 x 3/16	50.8 x 25.4 x 4.8	2.32

**CHANNELS
BAR SIZE
SPEC A-36/44W**

**STANDARD CHANNELS
SPEC A-36/44W**

New Designation Old Imp.	CDN Metric	Depth In.	Flange		Web Thickness In.	Section Modulus In. ³
			Width In.	Thickness (mean) In.		
C3 x 4.1 x 5.0 x 6.0	C75 x 6 x 7 x 9	3.00	1.41	.273	.170	1.11
			1.50	.273	.258	1.23
			1.60	.273	.356	1.38
C4 x 5.4 x 6.25 x 7.25	C100 x 8 x 9 x 11	4.00	1.58	.296	.184	1.93
			1.65	.296	.247	2.10
			1.72	.296	.321	2.30
C5 x 6.7 x 9.0	C130 x 10 x 13	5.00	1.75	.320	.190	3.00
			1.88	.320	.325	3.56
C6 x 8.2 x 10.5 x 13.0	C150 x 12 x 16 x 19	6.00	1.92	.343	.200	4.37
			2.03	.343	.314	5.07
			2.16	.343	.437	5.80
C7 x 9.8 x 12.25 x 14.75	C180 x 15 x 18 x 22	7.00	2.09	.366	.210	6.09
			2.19	.366	.314	6.91
			2.30	.366	.419	7.77
C8 x 11.5 x 13.75 x 18.75	C200 x 17 x 21 x 28	8.00	2.26	.390	.220	8.15
			2.34	.390	.303	9.03
			2.53	.390	.487	11.0
C9 x 13.4 x 15.0 x 20.0	C230 x 20 x 22 x 30	9.00	2.43	.413	.233	10.6
			2.48	.413	.285	11.3
			2.65	.413	.448	13.5
C10 x 15.3 x 20.0 x 25.0 x 30.0	C250 x 23 x 30 x 37 x 45	10.00	2.60	.436	.240	13.5
			2.74	.436	.379	15.8
			2.89	.436	.526	18.2
			3.03	.436	.673	20.6
C12 x 20.7 x 25.0 x 30.0	C310 x 31 x 37 x 45	12.00	2.94	.501	.282	21.5
			3.05	.501	.387	24.0
			3.17	.501	.510	27.0
C15 x 33.9 x 40.0 x 50.0	C380 x 50 x 60 x 74	15.00	3.40	.650	.400	42.0
			3.52	.650	.520	46.5
			3.72	.650	.716	53.9



MISCELLANEOUS CHANNELS

SPEC A-36/44W

New Designation Old Imp.	CDN Metric	Depth In.	Flange		Web Thickness In.	Section Modulus In. ³		
			Width In.	Thickness (mean) In.				
MC3	x 7.1 x 9.0	MC75	x 10.6 x 13.4	3.00	1.94	.351	.312	1.82
					2.12	.351	.497	2.10
MC6	x 12.0 x 15.1 x 15.3 x 16.3 x 18.0	MC150	x 17.9 x 22.5 x 22.8 x 24.3 x 26.8	6.00	2.50	.375	.310	6.23
					2.94	.475	.316	8.33
					3.50	.385	.340	8.47
					3.00	.475	.375	8.67
					3.50	.475	.379	9.90
MC7	x 17.6 x 19.1 x 22.7	MC180	x 26.2 x 28.4 x 33.8	7.00	3.00	.475	.375	10.7
					3.45	.500	.350	12.3
					3.60	.500	.503	13.6
MC8	x 8.5 x 18.7 x 20.0 x 21.4 x 22.8	MC200	x 12.6 x 27.8 x 29.8 x 31.8 x 33.9	8.00	1.87	.311	.179	5.83
					2.98	.500	.353	13.1
					3.02	.500	.400	13.6
					3.45	.525	.375	15.4
					3.50	.525	.427	16.0
MC9	x 23.9 x 25.4	MC230	x 35.6 x 37.8	9.00	3.45	.550	.400	18.9
					3.50	.550	.450	19.6
MC10	x 6.5 x 8.4 x 21.9 x 24.9 x 25.3 x 28.3 x 28.5 x 33.6 x 41.1	MC250	x 9.7 x 12.5 x 32.6 x 37.1 x 37.7 x 42.1 x 42.4 x 50.0 x 61.2	10.00	1.13	.202	.152	4.42
					1.50	.280	.170	6.40
					3.45	.500	.325	19.7
					3.40	.575	.377	22.0
					3.55	.500	.425	21.4
					3.50	.575	.477	23.6
					3.95	.575	.425	25.4
					4.10	.575	.575	27.8
					4.32	.575	.796	31.6
					MC12	x 10.6 x 30.9 x 32.9 x 35.0 x 37.0 x 40.0 x 45.0 x 50.0	MC310	x 15.8 x 46.0 x 49.0 x 52.0 x 55.0 x 60.0 x 67.0 x 74.0
3.45	.600	.450	30.5					
3.50	.600	.500	31.8					
3.77	.700	.467	36.0					
3.60	.600	.600	34.2					
3.89	.700	.590	39.0					
4.01	.700	.712	42.0					
4.14	.700	.835	44.8					
MC13	x 31.8 x 35.0 x 40.0 x 50.0	MC330	x 47.3 x 52.0 x 60.0 x 74.0	13.00				
					4.07	.610	.447	38.8
					4.18	.610	.560	42.0
					4.41	.610	.787	48.3
					MC18	x 42.7 x 45.8 x 51.9 x 58.0	MC460	x 63.5 x 68.2 x 77.2 x 86.0
4.00	.625	.500	64.2					
4.10	.625	.600	69.7					
4.20	.625	.700	75.1					



FLATS
HOT ROLLED
SPEC A-36/44W

Imperial		Wt.
Size In.		lbs./ft.
1/8 x	1/2	.213
	3/4	.319
1		.425
1-1/4		.531
1-1/2		.638
1-3/4		.744
2		.850
2-1/2		1.063
3		1.275
3-1/2		1.488
4		1.700
4-1/2		1.913
5		2.125
6		2.550
8		3.400

Imperial		Wt.
Size In.		lbs./ft.
1/4 x	1/2	.425
	3/4	.638
1		.850
1-1/4		1.06
1-1/2		1.28
1-3/4		1.49
2		1.700
2-1/2		2.13
3		2.550
3-1/2		2.98
4		3.400
4-1/2		3.83
5		4.250
5-1/2		4.68
6		5.100
7		5.950
8		6.800
10		8.510

Imperial		Wt.
Size In.		lbs./ft.
3/8 x	3/4	.956
	1	1.28
1-1/4		1.59
1-1/2		1.91
2		2.550
2-1/2		3.19
3		3.83
3-1/2		4.46
4		5.100
4-1/2		5.74
5		6.38
6		7.650
7		8.93
8		10.200
10		12.750
12		15.300

Imperial		Wt.
Size In.		lbs./ft.
3/16 x	1/2	.319
	3/4	.478
1		.638
1-1/4		.797
1-1/2		.956
1-3/4		1.200
2		1.28
2-1/2		1.594
3		1.913
3-1/2		2.230
4		2.550
4-1/2		2.869
5		3.19
6		3.83
8		5.100

Imperial		Wt.
Size In.		lbs./ft.
5/16 x	1	1.06
	1-1/4	1.33
1-1/2		1.59
1-3/4		1.86
2		2.13
2-1/2		2.66
3		3.19
3-1/2		3.72
4		4.250
4-1/2		4.781
5		5.31
6		6.38
7		7.438
8		8.500

Imperial		Wt.
Size In.		lbs./ft.
1/2 x	1	1.700
	1-1/4	2.130
1-1/2		2.550
2		3.400
2-1/2		4.250
3		5.100
3-1/2		5.950
4		6.800
4-1/2		7.650
5		8.500
6		10.200
7		11.900
8		13.600
10		17.000
12		20.400



FLATS
HOT ROLLED
SPEC A-36/44W

Imperial	
Size In.	Wt. lbs./ft.
5/8 x 1	2.13
1-1/2	3.19
2	4.250
2-1/2	5.31
3	6.38
3-1/2	7.44
4	8.500
4-1/2	9.56
5	10.63
6	12.750
7	14.88
8	17.000
10	21.250
12	25.500

Imperial	
Size In.	Wt. lbs./ft.
7/8 x 1	2.975
1-1/2	4.463
2	5.950
2-1/2	7.440
3	8.925
3-1/2	10.413
4	11.900
4-1/2	13.390
5	14.880
6	17.850
8	23.800
10	29.750
12	35.700

Imperial	
Size In.	Wt. lbs./ft.
1-1/4 x 1-1/2	6.375
2	8.550
3	12.750
4	17.000
6	25.500
8	34.000
10	42.500
12	51.000

Imperial	
Size In.	Wt. lbs./ft.
3/4 x 1	2.550
1-1/2	3.825
2	5.100
2-1/2	6.375
3	7.650
3-1/2	8.925
4	10.200
4-1/2	11.475
5	12.750
6	15.300
8	20.400
10	25.500
12	30.600

Imperial	
Size In.	Wt. lbs./ft.
1 x 1-1/2	5.100
2	6.800
2-1/2	8.500
3	10.200
3-1/2	11.900
4	13.600
5	17.000
6	20.400
8	27.200
10	34.000
12	40.800

Imperial	
Size In.	Wt. lbs./ft.
1-1/2 x 2	10.200
3	15.300
4	20.400
6	30.600
8	40.800
10	51.000
12	61.200



ROUNDS
HOT ROLLED
SPEC A-36/44W



Imperial		Imperial		Imperial		Imperial	
Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
1/8	.042	2	10.68	4	42.73	6	96.13
5/32	.065	2-1/16	11.36	4-1/16	44.07	6-1/4	104.20
3/16	.094	2-1/8	12.06	4-1/8	45.44	6-1/2	112.82
7/32	.128	2-3/16	12.78	4-3/16	46.83	6-3/4	121.60
1/4	.167	2-1/4	13.52	4-1/4	49.18		
9/32	.211	2-5/16	14.28	4-5/16	49.66		
5/16	.261	2-3/8	15.06	4-3/8	51.11	7	130.80
11/32	.316	2-7/16	15.87	4-7/16	52.58	7-1/4	140.36
3/8	.376	2-1/2	16.69	4-1/2	54.08	7-1/2	150.10
7/16	.511	2-9/16	17.53	4-9/16	55.59	7-3/4	160.39
1/2	.668	2-5/8	18.40	4-5/8	57.12		
9/16	.845	2-11/16	19.29	4-11/16	58.67		
5/8	1.043	2-3/4	20.20	4-3/4	60.25	8	170.80
11/16	1.262	2-13/16	21.12	4-13/16	61.85	8-1/4	181.75
3/4	1.502	2-7/8	22.07	4-7/8	63.46	8-1/2	192.90
13/16	1.763	2-15/16	23.04	4-15/16	65.10	8-3/4	204.45
7/8	2.045						
15/16	2.347						
						9	216.20
1	2.670	3	24.03	5	66.76	9-1/4	228.48
1-1/16	3.015	3-1/16	25.04	5-1/16	68.44	9-1/2	240.90
1-1/8	3.380	3-1/8	26.08	5-1/8	70.14	9-3/4	253.85
1-3/16	3.766	3-3/16	27.13	5-3/16	71.86		
1-1/4	4.172	3-1/4	28.21	5-1/4	73.60		
1-5/16	4.600	3-5/16	29.30	5-5/16	75.36	10	267.00
1-3/8	5.049	3-3/8	30.42	5-3/8	77.15	10-1/2	294.40
1-7/16	5.518	3-7/16	31.55	5-7/16	78.95		
1-1/2	6.008	3-1/2	32.71	5-1/2	80.78		
1-9/16	6.519	3-9/16	33.89	5-9/16	82.62		
1-5/8	7.051	3-5/8	35.09	5-5/8	84.49	11	323.10
1-11/16	7.604	3-11/16	36.21	5-11/16	86.38	11-1/2	353.16
1-3/4	8.178	3-3/4	37.55	5-3/4	88.30		
1-13/16	8.773	3-13/16	38.81	5-13/16	90.22		
1-7/8	9.388	3-7/8	40.10	5-7/8	92.17	12	384.53
1-15/16	10.020	3-15/16	41.40	5-15/16	94.14		



SQUARES
HOT ROLLED
SPEC A-36/44W

Imperial	
Size In.	Wt. lbs./ft.
1/8	0.53
3/16	.120
1/4	.213
5/16	.332
3/8	.478
7/16	.651
1/2	.850
9/16	1.08
5/8	1.33
11/16	1.61
3/4	1.91
13/16	2.25
7/8	2.60
15/16	2.99
1	3.40
1-1/16	3.84
1-1/8	4.30
1-3/16	4.80
1-1/4	5.31
1-5/16	5.86
1-3/8	6.43
1-7/16	7.03
1-1/2	7.65
1-5/8	8.98
1-3/4	10.41
1-7/8	11.95
2	13.60
2-1/8	15.35
2-1/4	17.21
2-3/8	19.18
2-1/2	21.25
2-5/8	23.43
2-3/4	25.71
3	30.60
3-1/4	35.92
3-1/2	41.65
3-3/4	47.81
4	54.40



ROUNDS COLD FINISHED

SPEC C1018/C1045/C1144SR/STRESSPROOF

Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
1/8	.042	2-5/8	18.40
5/32	.065	2-11/16	19.29
3/16	.090	2-3/4	20.20
7/32	.128	2-13/16	21.12
1/4	.167	2-7/8	22.07
9/32	.211	2-15/16	23.04
5/16	.261	3	24.03
11/32	.316	3-1/16	25.04
3/8	.376	3-1/8	26.08
7/16	.510	3-3/16	27.13
1/2	.670	3-1/4	28.21
9/16	.850	3-5/16	29.30
5/8	1.04	3-3/8	30.42
11/16	1.26	3-7/16	31.55
3/4	1.50	3-1/2	32.71
13/16	1.76	3-9/16	33.89
7/8	2.04	3-5/8	35.09
15/16	2.35	3-11/16	36.21
1	2.67	3-3/4	37.55
1-1/16	3.01	3-13/16	38.81
1-1/8	3.38	3-7/8	40.10
1-3/16	3.77	3-15/16	41.40
1-1/4	4.17	4	42.73
1-5/16	4.60	4-1/8	45.44
1-3/8	5.05	4-3/16	46.83
1-7/16	5.52	4-1/4	48.23
1-1/2	6.01	4-5/16	49.66
1-9/16	6.52	4-3/8	51.11
1-5/8	7.05	4-7/16	52.58
1-11/16	7.60	4-1/2	54.07
1-3/4	8.18	4-9/16	55.59
1-13/16	8.77	4-5/8	57.12
1-7/8	9.39	4-11/16	58.67
1-15/16	10.02	4-3/4	60.25
2	10.68	4-7/8	63.46
2-1/16	11.36	4-15/16	65.10
2-1/8	12.06	5	66.76
2-3/16	12.78	5-1/8	70.14
2-1/4	13.52	5-1/4	73.60
2-5/16	14.28	5-7/16	78.95
2-3/8	15.06	5-1/2	80.78
2-7/16	15.87	5-3/4	88.30
2-1/2	16.69	5-5/16	94.14
2-9/16	17.53	6	96.13



SQUARES
COLD FINISHED
SPEC C1018

Size In.	Wt. lbs./ft.
1/8	.053
3/16	.120
1/4	.210
5/16	.330
3/8	.480
7/16	.651
1/2	.850
9/16	1.08
5/8	1.33
11/16	1.61
3/4	1.91
13/16	2.25
7/8	2.60
15/16	2.99
1	3.40
1-1/16	3.84
1-1/8	4.30
1-3/16	4.80
1-1/4	5.31
1-5/16	5.86
1-3/8	6.43
1-7/16	7.03
1-1/2	7.65
1-5/8	8.98
1-3/4	10.41
1-7/8	11.95
2	13.60
2-1/8	15.35
2-1/4	17.21
2-3/8	19.18
2-1/2	21.25
2-5/8	23.43
2-3/4	25.71
3	30.60
3-1/2	41.65
4	54.40

• OTHER GRADES AVAILABLE •
• COLD FINISHED FLATS - PLEASE ENQUIRE •



ROUND MECHANICAL TUBING



Size In.	Gauge	Wt. lbs./ft.	Size In.	Gauge	Wt. lbs./ft.
3/4" (.750) OD	16	.476	1-5/8" (1.626) OD	16	1.083
	15	.521		15	1.194
	14	.591		14	1.357
7/8" (.875) OD	16	.562		12	1.765
	15	.618		11	1.929
	14	.702	1.660 OD (1-1/4" P.S.)	16	1.107
	12	.892		15	1.221
11	.968	14		1.398	
1" (1.000) OD	16	.649		12	1.806
	15	.714	11	1.974	
	14	.813	1-3/4" (1.750) OD	16	1.107
	12	1.037		15	1.290
	11	1.128		14	1.478
1.050 OD (3/4" P.S.)	16	.684		13	1.679
	15	.752		12	1.910
	14	.857	11	2.089	
	12	1.100	1.900 OD (1-1/2" P.S.)	16	1.274
	11	1.192		15	1.406
1-1/4" (1.250) OD	16	.823		14	1.611
	15	.906		12	2.085
	14	1.034		11	2.281
	12	1.328	2" (2.000) OD	16	1.343
	11	1.448		15	1.483
1-5/16" (1.315) OD (1" P.S.)	16	.868		14	1.699
	15	.956		12	2.201
	14	1.092		11	2.409
	12	1.404	2-3/8" (2.375) OD (2" P.S.)	16	1.604
	11	1.532		15	1.771
1-1/2" (1.500) OD	16	.996		14	2.032
	15	1.098		12	2.638
	14	1.256		11	2.890
	12	1.619	2-1/2" (2.500) OD	16	1.690
	11	1.769		15	1.867
		14		2.143	
		12		2.783	
		11		3.050	

NOTE: P.S. indicates pipe size.



ROUND MECHANICAL TUBING

Size In.	Gauge	Wt. lbs./ft.	Size In.	Gauge	Wt. lbs./ft.	
2-5/8" (2.625) OD	16	1.777	6" OD	14	5.24	
	15	1.963		12	6.8	
	14	2.253		10	8.6	
	12	2.929	7" OD	14	5.7	
	11	3.210		12	7.9	
2-3/4" (2.750) OD	16	1.864	10	10.1		
	15	2.059	8" OD	14	6.5	
	14	2.364		12	9.0	
	12	3.075		11	10.3	
	11	3.371		10	11.6	
2-7/8" (2.875) OD (2-1/2" P.S.)	14	2.480	8-5/8" OD	12	9.8	
	12	3.220		10	12.5	
	11	3.530	10" OD	12	12.2	
3" OD	14	2.6		11	12.8	
	12	3.3		10	14.6	
	11	3.7		10-3/4" OD	12	12.2
	10	4.2			10	15.6
3-1/2" OD (3" P.S.)	14	2.8	12" OD	12	13.6	
	12	3.9		10	17.5	
	11	4.3	12-3/4" OD	12	14.5	
	10	5.0		10	18.6	
4" OD	14	3.2		14" OD	12	15.9
	12	4.5	10		20.4	
	11	4.9	16" OD	12	18.2	
	10	5.7		10	23.4	
4-1/2" OD (4 P.S.)	14	3.6	5" OD	14	4.0	
	12	5.0		12	5.5	
	11	5.6		10	7.2	
	10	6.4				

NOTE: P.S. indicates pipe size.



**SEAMLESS AND WELDED
STEEL PIPE**
A.S.A. PIPE SCHEDULE 5 AND 10



A.S.A. PIPE SCHEDULE			5	10		
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.	
1/8	.405	.035	.1383	.049	.1863	
1/4	.540	.049	.2570	.065	.3297	
3/8	.675	.049	.3276	.065	.4235	
1/2	.840	.065	.5383	.083	.6710	
3/4	1.050	.065	.6838	.083	.8572	
1	1.315	.065	.8678	.109	1.404	
1-1/4	1.660	.065	1.107	.109	1.806	
1-1/2	1.900	.065	2.274	.109	2.085	
2	2.375	.065	1.604	.109	2.638	
2-1/2	2.875	.083	2.475	.120	3.531	
3	3.500	.083	3.029	.120	4.332	
3-1/2	4.000	.083	3.472	.120	4.973	
4	4.500	.083	3.925	.120	5.613	
4-1/2	5.000					
5	5.563	.109	6.349	.134	7.770	
6	6.625	.109	7.585	.134	9.289	
7	7.625					
8	8.625	.109	9.914	.148	13.40	
9	9.625					
10	10.750	.134	15.19	.165	18.70	
11	11.750					
12	12.750	.165	22.18	.180	24.20	
14	14.000			.250	36.71	
16	16.000			.250	42.05	
18	18.000			.250	47.39	
20	20.000			.250	52.73	
24	24.000			.250	63.41	

FOR ASA PIPE SCHEDULE BEYOND 10, SEE FOLLOWING PAGES.



SEAMLESS AND WELDED STEEL PIPE

A.S.A. PIPE SCHEDULE 20 AND 30

A.S.A. PIPE SCHEDULE		20		30	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405				
1/4	.540				
3/8	.675				
1/2	.840				
3/4	1.050				
1	1.315				
1-1/4	1.660				
1-1/2	1.900				
2	2.375				
2-1/2	2.875				
3	3.500				
3-1/2	4.000				
4	4.500				
4-1/2	5.000				
5	5.563				
6	6.625				
7	7.625				
8	8.625	.250	22.36	.277	24.70
9	9.625				
10	10.750	.250	28.04	.307	34.24
11	11.750				
12	12.750	.250	33.38	.330	43.77
14	14.000	.312	45.68	.375	54.57
16	16.000	.312	52.36	.375	62.58
18	18.000	.312	59.03	.437	82.06
20	20.000	.375	78.60	.500	104.10
24	24.000	.375	94.62	.562	140.80



SEAMLESS AND WELDED STEEL PIPE

A.S.A. PIPE SCHEDULE 40 AND STANDARD



A.S.A. PIPE SCHEDULE		40		STANDARD	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405	.068	.2447	.068	.2447
1/4	.540	.088	.4248	.088	.4248
3/8	.675	.091	.5676	.091	.5676
1/2	.840	.109	.8510	.109	.8510
3/4	1.050	.113	1.131	.113	1.131
1	1.315	.133	1.679	.133	1.679
1-1/4	1.660	.140	2.273	.140	2.273
1-1/2	1.900	.145	2.718	.145	2.718
2	2.375	.154	3.653	.154	3.653
2-1/2	2.875	.203	5.793	.203	5.793
3	3.500	.216	7.576	.216	7.576
3-1/2	4.000	.226	9.109	.226	9.109
4	4.500	.237	10.79	.237	10.79
4-1/2	5.000	.247	12.53	.247	12.53
5	5.563	.258	14.62	.258	14.62
6	6.625	.280	18.97	.280	18.97
7	7.625	.301	23.57	.301	23.57
8	8.625	.322	28.55	.322	28.55
9	9.625	.342	33.90	.342	33.90
10	10.750	.365	40.48	.365	40.48
11	11.750	.375	45.55	.375	45.55
12	12.750	.406	53.53	.375	49.56
14	14.000	.437	63.37	.375	54.57
16	16.000	.500	82.77	.375	62.58
18	18.000	.562	104.80	.375	70.59
20	20.000	.593	122.90	.375	78.60
24	24.000	.687	171.20	.375	94.62

PIPE THREADING AVAILABLE



SEAMLESS AND WELDED STEEL PIPE

A.S.A. PIPE SCHEDULE 60 AND 80

A.S.A. PIPE SCHEDULE		60		80	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405			.095	.3145
1/4	.540			.119	.5351
3/8	.675			.126	.7388
1/2	.840			.147	1.088
3/4	1.050			.154	1.474
1	1.315			.179	2.172
1-1/4	1.660			.191	2.997
1-1/2	1.900			.200	3.631
2	2.375			.218	5.022
2-1/2	2.875			.276	7.661
3	3.500			.300	10.25
3-1/2	4.000			.318	12.51
4	4.500	.281	12.66	.337	14.98
4-1/2	5.000				
5	5.563			.375	20.78
6	6.625			.432	28.57
7	7.625				
8	8.625	.406	35.64	.500	43.39
9	9.625				
10	10.750	.500	54.74	.593	64.33
11	11.750				
12	12.750	.562	73.16	.687	88.51
14	14.000	.593	84.91	.750	106.10
16	16.000	.656	107.50	.843	136.50
18	18.000	.750	138.20	.937	170.80
20	20.000	.812	166.40	1.031	208.90
24	24.000	.968	238.10	1.218	296.40



SEAMLESS AND WELDED STEEL PIPE

A.S.A. PIPE EXTRA HEAVY AND SCHEDULE 100



A.S.A. PIPE SCHEDULE		EXTRA STRONG		100	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405	.095	.3145		
1/4	.540	.119	.5351		
3/8	.675	.126	.7388		
1/2	.840	.147	1.088		
3/4	1.050	.154	1.474		
1	1.315	.179	2.172		
1-1/4	1.660	.191	2.997		
1-1/2	1.900	.200	3.631		
2	2.375	.218	5.022		
2-1/2	2.875	.276	7.661		
3	3.500	.300	10.25		
3-1/2	4.000				
4	4.500	.337	14.98		
4-1/2	5.000	.355	17.61		
5	5.563	.375	20.78		
6	6.625	.432	28.57		
7	7.625	.500	38.05		
8	8.625	.500	43.39	.593	50.87
9	9.625	.500	48.72		
10	10.750	.500	54.74	.718	76.93
11	11.750	.500	60.07		
12	12.750	.500	65.42	.843	107.20
14	14.000	.500	72.09	.937	130.70
16	16.000	.500	82.77	1.031	164.80
18	18.000	.500	93.45	1.156	208.00
20	20.000	.500	104.10	1.280	256.10
24	24.000	.500	125.50	1.531	367.40



SEAMLESS AND WELDED STEEL PIPE

A.S.A. PIPE SCHEDULE 120 AND 140

A.S.A. PIPE SCHEDULE		120		140	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405				
1/4	.540				
3/8	.675				
1/2	.840				
3/4	1.050				
1	1.315				
1-1/4	1.660				
1-1/2	1.900				
2	2.375				
2-1/2	2.875				
3	3.500				
3-1/2	4.000				
4	4.500	.437	19.01		
4-1/2	5.000				
5	5.563	.500	27.04		
6	6.625	.562	36.39		
7	7.625				
8	8.625	.718	60.93	.812	67.76
9	9.625				
10	10.750	.843	89.20	1.000	104.10
11	11.750				
12	12.750	1.000	125.50	1.125	139.70
14	14.000	1.093	150.70	1.250	170.20
16	16.000	1.218	192.30	1.437	223.50
18	18.000	1.375	244.10	1.562	274.20
20	20.000	1.500	296.40	1.750	341.10
24	24.000	1.812	429.40	2.062	483.10



SEAMLESS AND WELDED STEEL PIPE



A.S.A. PIPE SCHEDULE 160 AND DOUBLE EXTRA STRONG

A.S.A. PIPE SCHEDULE		160		DOUBLE EXTRA STRONG	
Pipe Size In.	O.D. In.	Wall Thickness In.	Wt. lbs./ft.	Wall Thickness In.	Wt. lbs./ft.
1/8	.405				
1/4	.540				
3/8	.675				
1/2	.840	.187	1.304	.294	1.714
3/4	1.050	.218	1.937	.308	2.441
1	1.315	.250	2.844	.358	3.659
1-1/4	1.660	.250	3.765	.382	5.214
1-1/2	1.900	.281	4.859	.400	6.408
2	2.375	.343	7.444	.436	9.029
2-1/2	2.875	.375	10.01	.552	13.70
3	3.500	.437	14.21	.600	18.58
3-1/2	4.000			.636	22.85
4	4.500	.531	22.51	.674	27.54
4-1/2	5.000			.710	32.53
5	5.563	.625	32.96	.750	38.55
6	6.625	.718	45.30	.864	53.16
7	7.625			.875	63.08
8	8.625	.906	74.69	.875	72.42
9	9.625				
10	10.750	1.125	115.70		
11	11.750				
12	12.750	1.312	160.30		
14	14.000	1.406	189.10		
16	16.000	1.593	245.10		
18	18.000	1.781	308.50		
20	20.000	1.968	379.00		
24	24.000	2.343	541.90		



HOLLOW STRUCTURAL SECTIONS SQUARE

SPEC G40.21 - GR 50 W/A500C

Imperial		Metric		Weight lbs./ft.
Size In.	Thickness In.	Size mm	Thickness mm	
1/2 x 1/2	x .065	12.7 x 12.7	x 1.65	.38
3/4 x 3/4	x .065	19.1 x 19.1	x 1.65	.61
1 x 1	x .065	25.4 x 25.4	x 1.65	.83
	x .083		x 2.11	.95
	x .100		x 2.54	1.14
	x .125		x 3.18	1.35
1-1/4 x 1-1/4	x .083	31.8 x 31.8	x 1.83	1.32
	x .100		x 2.54	1.48
	x .125		x 3.18	1.78
1-1/2 x 1-1/2	x .083	38.1 x 38.1	x 2.11	1.51
	x .100		x 2.54	1.82
	x .125		x 3.18	2.20
	x .188		x 4.78	3.35
2 x 2	x .100	50.8 x 50.8	x 2.54	2.50
	x .110		x 2.79	2.72
	x .125		x 3.18	3.06
	x .188		x 4.78	4.33
	x .250		x 6.35	5.41
2-1/2 x 2-1/2	x .125	63.5 x 63.5	x 3.18	3.91
	x .188		x 4.78	5.61
	x .215		x 5.46	6.20
	x .250		x 6.35	7.11
3 x 3	x .125	76.2 x 76.2	x 3.18	4.76
	x .188		x 4.78	6.89
	x .250		x 6.35	8.81
	x .313		x 7.95	10.59
	x .375		x 9.53	12.2
3-1/2 x 3-1/2	x .125	88.9 x 88.9	x 3.18	5.59
	x .188		x 4.78	8.17
	x .250		x 6.35	10.51
	x .313		x 7.95	12.7
	x .375		x 9.53	14.71
4 x 4	x .125	101.6 x 101.6	x 3.18	6.46
	x .188		x 4.78	9.45
	x .250		x 6.35	12.21
	x .313		x 7.95	14.83
	x .375		x 9.53	17.27
	x .500		x 12.70	21.63
4-1/2 x 4-1/2	x .188	114.3 x 114.3	x 4.78	10.7
	x .250		x 6.35	13.9
	x .313		x 7.95	17.0
	x .375		x 9.53	19.8



HOLLOW STRUCTURAL SECTIONS SQUARE



SPEC G40.21 - GR 50 W/A500C

Imperial		Metric		Weight lbs./ft.
Size In.	Thickness In.	Size mm	Thickness mm	
5 x 5	x .125	127.0 x 127.0	x 3.18	8.15
	x .188		x 4.78	12.0
	x .250		x 6.35	15.62
	x .313		x 7.95	19.08
	x .375		x 9.53	22.37
	x .500		x 12.70	28.43
6 x 6	x .188	152.4 x 152.4	x 4.78	14.56
	x .250		x 6.35	19.02
	x .313		x 7.95	23.33
	x .375		x 9.53	27.48
	x .500		x 12.70	35.24
7 x 7	x .188	177.8 x 177.8	x 4.78	17.13
	x .250		x 6.35	22.42
	x .313		x 7.95	27.63
	x .375		x 9.53	32.58
	x .500		x 12.70	42.05
8 x 8	x .188	203.2 x 203.2	x 4.78	19.63
	x .250		x 6.35	25.82
	x .313		x 7.95	31.84
	x .375		x 9.53	37.69
	x .500		x 12.70	48.85
10 x 10	x .250	254.0 x 254.0	x 6.35	32.63
	x .313		x 7.95	40.4
	x .375		x 9.53	47.9
	x .500		x 12.70	62.46
12 x 12	x .250	304.8 x 304.8	x 6.35	39.43
	x .313		x 7.95	48.86
	x .375		x 9.53	58.10
	x .500		x 12.70	76.07
14 x 14	x .313	355.6 x 355.6	x 7.95	57.36
	x .375		x 9.53	68.31
	x .500		x 12.70	89.68
16 x 16	x .313	406.4 x 406.4	x 7.95	65.87
	x .375		x 9.53	78.52
	x .500		x 12.70	103.30

IN HOUSE SAW CUTTING AVAILABLE



**HOLLOW STRUCTURAL SECTIONS
RECTANGULAR**
SPEC G40.21 - GR 50 W/A500C

Imperial		Metric		Weight lbs./ft.
Size In.	Thickness In.	Size mm	Thickness mm	
2 x 1	x .083	50.8 x 25.4	x 2.11	1.54
	x .100		x 2.54	1.82
	x .125		x 3.18	2.21
2-1/2 x 1-1/2	x .125	63.5 x 38.1	x 3.18	3.06
	x .188		x 4.78	4.33
3 x 1	x .100	76.2 x 25.4	x 2.54	2.58
	x .125		x 3.18	3.06
	x .188		x 4.78	4.32
	x .250		x 6.35	5.41
3 x 1-1/2	x .100	76.2 x 38.1	x 2.54	2.92
	x .125		x 3.18	3.48
	x .188		x 4.78	4.96
3 x 2	x .125	76.2 x 50.8		3.91
	x .188		x 4.78	5.61
	x .250		x 6.35	7.11
3-1/2 x 2-1/2	x .188	88.9 x 63.5	x 4.78	6.89
	x .250		x 6.35	8.80
4 x 2	x .125	101.6 x 50.8	x 3.18	4.76
	x .188		x 4.78	6.89
	x .250		x 6.35	8.81
4 x 3	x .125	101.6 x 76.2	x 3.18	5.61
	x .188		x 4.78	8.17
	x .250		x 6.35	10.51
	x .375		x 9.53	14.71
5 x 2	x .125	127.0 x 50.8	x 3.18	5.61
	x .188		x 4.78	8.17
	x .250		x 6.35	10.51
	x .375		x 9.53	14.7
5 x 3	x .188	127.0 x 76.2	x 4.78	9.45
	x .250		x 6.35	12.21
	x .375		x 9.53	17.27



**HOLLOW STRUCTURAL SECTIONS
RECTANGULAR**

SPEC G40.21 - GR 50 W/A500C



Imperial		Metric		Weight lbs./ft.
Size In.	Thickness In.	Size mm	Thickness mm	
6 x 2	x .125	152.4 x 50.8	x 3.18	6.46
	x .188		x 4.78	9.45
	x .250		x 6.35	12.21
	x .313		x 7.95	14.8
	x .375		x 9.53	17.27
6 x 3	x .188	152.4 x 76.2	x 4.78	10.7
	x .250		x 6.35	13.91
	x .313		x 7.95	17.0
	x .375		x 9.53	19.82
6 x 4	x .188	152.4 x 101.6	x 4.78	12.0
	x .250		x 6.35	15.62
	x .313		x 7.95	19.08
	x .375		x 9.53	22.37
	x .500		x 12.70	28.43
7 x 5	x .188	177.8 x 127.0	x 4.78	14.56
	x .250		x 6.35	19.02
	x .313		x 7.95	23.4
	x .375		x 9.53	27.48
	x .500		x 12.70	35.24
8 x 2	x .188	203.2 x 50.8	x 4.78	11.90
	x .250		x 6.35	15.62
	x .375		x 9.53	21.9
8 x 3	x .188	203.2 x 76.2	x 4.78	13.3
	x .250		x 6.35	17.3
	x .375		x 9.53	24.9
8 x 4	x .188	203.2 x 101.6	x 4.78	14.56
	x .250		x 6.35	19.02
	x .313		x 7.95	23.4
	x .375		x 9.53	27.48
	x .500		x 12.70	35.24
8 x 6	x .188	203.2 x 152.4	x 4.78	17.13
	x .250		x 6.35	22.42
	x .313		x 7.95	27.63
	x .375		x 9.53	32.58
	x .500		x 12.70	42.05
8-1/2 x 2	x .109	215.9 x 50.8	x 2.77	7.52
	x .125		x 3.18	8.60
	x .188		x 4.78	12.66
	x .250		x 6.35	16.5



HOLLOW STRUCTURAL SECTIONS
RECTANGULAR
SPEC G40.21 - GR 50 W/A500C

Imperial		Metric		Weight lbs./ft.
Size In.	Thickness In.	Size mm	Thickness mm	
10 x 4	x .188	254.0 x 101.6	x 4.78	17.1
	x .250		x 6.35	22.42
	x .313		x 7.95	27.63
	x .375		x 9.53	32.6
10 x 6	x .250	254.0 x 152.4	x 6.35	25.82
	x .313		x 7.95	31.84
	x .375		x 9.53	37.69
	x .500		x 12.70	48.85
10 x 8	x .250	254.0 x 203.2	x 6.35	29.23
	x .375		x 9.53	41.9
	x .500		x 12.70	54.1
12 x 6	x .250	304.8 x 152.4	x 6.35	29.23
	x .375		x 9.53	41.9
	x .500		x 12.70	54.1
12 x 8	x .250	304.8 x 203.2	x 6.35	32.63
	x .313		x 7.95	40.4
	x .375		x 9.53	47.9
	x .500		x 12.70	62.46
14 x 6	x .250	355.6 x 152.4	x 6.35	32.63
	x .313		x 7.95	40.35
	x .375		x 9.53	47.90
	x .500		x 12.70	62.46
14 x 10	x .313	355.6 x 254.0	x 7.95	48.86
	x .375		x 9.53	58.10
	x .500		x 12.70	76.07
16 x 8	x .313	406.4 x 203.2	x 7.95	48.86
	x .375		x 9.53	58.10
	x .500		x 12.70	76.07
16 x 12	x .313	406.4 x 304.8	x 7.95	57.36
	x .375		x 9.53	68.31
	x .500		x 12.70	89.68



**STEEL SHEET
HOT ROLLED
SPEC A569**

Manufacturers' Sheet Gauge No.	Thickness Equivalent	Pounds Per Square Foot
7	.1793	7.5
10	.1345	5.625
11	.1196	5.0
12	.1046	4.38
13	.0897	3.75
14	.0747	3.13
16	.0598	2.5

Reference table only

PROCESSING CAPABILITIES

- PLATE SHEAR - 3/4" x 20'
- PLATE SHEAR - 1/2" x 26'
- BRAKE - 1000 TONS x 24'
- BRAKE - COMPUTERIZED BACKSTOP
- PLATE ROLLING - MAX. 1" THICK x 120" LONG

INQUIRE FOR OTHER GRADES

**STAINLESS STEEL AND ALUMINUM SHEET
AVAILABLE UPON REQUEST**



STEEL PLATES
SPEC A-36/44W

Imperial Reference Table Only

Thickness - in.		Theoretical Weight lbs./sq. ft.
Fractions	Decimals	
3/16	.1875	7.66
1/4	.25	10.21
5/16	.3125	12.76
3/8	.375	15.32
7/16	.4375	17.87
1/2	.5	20.42
9/16	.5625	22.97
5/8	.625	25.53
3/4	.75	30.63
7/8	.875	35.73
1	1	40.84
1-1/4	1.25	51.05
1-3/8	1.375	56.15
1-1/2	1.5	61.26
1-3/4	1.75	71.47
2	2	81.68
2-1/2	2.5	102.10
3	3	122.52
3-1/2	3.5	142.93
4	4	163.35
4-1/2	4.5	183.77
5	5	204.19
5-1/2	5.5	224.61
6	6	245.03
6-1/2	6.5	265.45

*Plate weights are computed on the basis of 40.84 lbs./sq. ft. per inch thick (490.06 lbs./cu. ft.)

Q.T. 100, A.R. 200, 360, & 425, PRESSURE VESSEL ALSO IN STOCK.

INQUIRE FOR OTHER GRADES

***FLAME AND PLASMA CUTTING
 - 10' X 40' TABLE - ANY MULTI SHAPE
 OR STRAIGHT CUTTING***



**HOT ROLLED CARBON STEEL
CHECKERED PLATE
SPEC COMMERCIAL QUALITY**

Gauge	Thickness - In.	Pounds Per Square Foot
14 gauge	.0747	3.75
12 gauge	.1046	5.25
1/8"	.125	6.16
3/16"	.1875	8.71
1/4"	.250	11.26
5/16"	.3125	13.81
3/8"	.375	16.37
7/16"	.4375	18.90
1/2"	.500	21.47

***Thickness is measured exclusive of raised figures.**

OUR MOST POPULAR PRODUCT IS OUR SERVICE



STEEL PLATES
SPEC A-36/44W

Imperial Reference Table Only

Thickness - In.		Theoretical Weight lbs./sq. ft.
Fractions	Decimals	
3/16	.1875	7.66
1/4	.25	10.21
5/16	.3125	12.76
3/8	.375	15.32
7/16	.4375	17.87
1/2	.5	20.42
9/16	.5625	22.97
5/8	.625	25.53
3/4	.75	30.63
7/8	.875	35.73
1	1	40.84
1-1/4	1.25	51.05
1-3/8	1.375	56.15
1-1/2	1.5	61.26
1-3/4	1.75	71.47
2	2	81.68
2-1/2	2.5	102.10
3	3	122.52
3-1/2	3.5	142.93
4	4	163.35
4-1/2	4.5	183.77
5	5	204.19
5-1/2	5.5	224.61
6	6	245.03
6-1/2	6.5	265.45

*Plate weights are computed on the basis of 40.84 lbs./sq. ft. per inch thick (490.06 lbs./cu. ft.)

Q.T. 100, A.R. 200, 360, & 425, PRESSURE VESSEL ALSO IN STOCK.

INQUIRE FOR OTHER GRADES

***FLAME AND PLASMA CUTTING
- 10' X 40' TABLE - ANY MULTI SHAPE
OR STRAIGHT CUTTING***



**HOT ROLLED CARBON STEEL
CHECKERED PLATE
SPEC COMMERCIAL QUALITY**

Gauge	Thickness - In.	Pounds Per Square Foot
14 gauge	.0747	3.75
12 gauge	.1046	5.25
1/8"	.125	6.16
3/16"	.1875	8.71
1/4"	.250	11.26
5/16"	.3125	13.81
3/8"	.375	16.37
7/16"	.4375	18.90
1/2"	.500	21.47

***Thickness is measured exclusive of raised figures.**

OUR MOST POPULAR PRODUCT IS OUR SERVICE



REINFORCING BARS

METRIC STANDARD REINFORCING BARS								
BAR SIZE	MASS	WEIGHT	NOMINAL DIMENSIONS - ROUND BARS ¹					
			Diameter		Cross Sectional Area		Perimeter	
Designation	Kg/m	lbs./ft.	mm	in.	mm ²	in. ²	mm	in.
10M	.785	.530	11.3	.445	100	.16	35.5	1.398
15M	1.570	1.06	16.0	.630	200	.31	50.1	1.972
20M	2.355	1.58	19.5	.768	300	.47	61.3	2.413
25M	3.925	2.64	25.2	.992	500	.78	79.2	3.118
30M	5.495	3.69	29.9	1.177	700	1.09	93.9	3.697
35M	7.850	5.28	35.7	1.405	1000	1.55	112.2	4.417
45M	11.775	7.912	43.7	1.720	1500	2.33	137.3	5.406
55M	19.625	13.187	56.4	2.220	2500	3.88	177.2	6.976

¹ The nominal dimensions of a deformed bar are equivalent to those of a plain bar having the same mass per metre (weight per foot) as the deformed bar.

STOCKED IN 6 METRE LENGTHS

Bars are available in three grades providing different levels of strength.

GRADE	Minimum Tensile Strength		Minimum Yield Strength ²	
	MPa	Ksi	MPa	Ksi
300	450	65.3	300	43.5
350	550	79.8	350	50.8
400	600	87.0	400	58.0

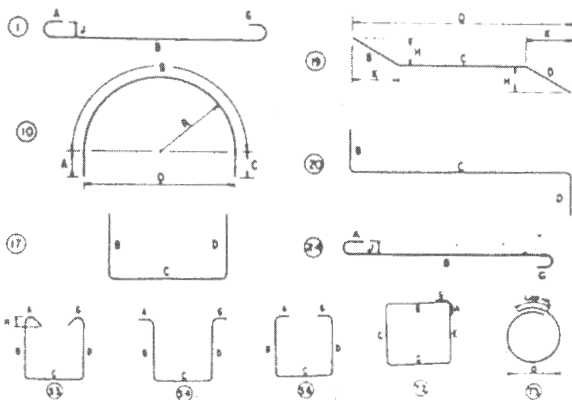
² Yield Point

REINFORCING MESH

Standard Roll Size: 5'x100', 5'x200'
Standard Sheet Size: 7'x20', 7.5'x20'

Imperial Destination	WGHT./SQ. FT.
6 x 6 x 10/10	.210
6 x 6 x 8/8	.300
6 x 6 x 6/6	.420
6 x 6 x 4/4	.580
4 x 4 x 10/10	.287
4 x 4 x 8/8	.413
4 x 4 x 6/6	.580
4 x 4 x 4/4	.857

TYPICAL BAR BENDS



Notes:

1. All dimensions are out-to-out of bar except A or G on standard 180-deg and 135-deg hooks.

2. The l dimension on 180-deg hooks to be shown only when necessary to restrict hook size; otherwise standard hooks are to be used.

3. Where l is not shown l will be kept equal to or less than H on truss bars. Where l can exceed H , it should be shown.



4. The H dimension on stirrups to be shown where necessary to fit within concrete.

5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer fabrication should have limits indicated.

6. Figures in circles show types.

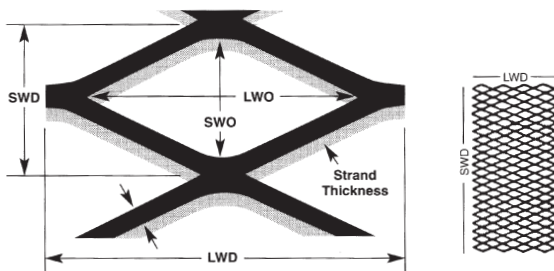
7. For minimum bend diameters, see Section 3.7.1 of this standard; for recommended hook dimensions, see Table 1.

8. Types S1-S9, S11, T1-T9 apply to Bar Sizes #3 - #8 inclusive only.

EXPANDED METAL

TERMINOLOGY

BOND: WHERE TWO STRANDS INTERSECT



S.W.D.: Short way of the diamond. Measured from the centre of one bond to the centre of the next.

L.W.D.: Long way of the diamond. Measured as above.

S.W.O.: Short way of the opening. Measured from the inside of the bonds.

L.W.O.: Long way of the opening. Measured as above.

Strand Thickness: Gauge thickness of the material before expanding.

Strand Width: Thickness of the material in one strand.



FLATTENED EXPANDED METALS - STEEL

CARBON

STYLE	Lbs. Per 100 Sq. ft. Plain	Standard Sheet Size (ft.)		Design Sizes (inches)		Opening Sizes (inches)		Strand Size (inches)	
		LWD	SWD	SWD	LWD	SWO	LWO	Width	Thick- ness
3/16" - 22	55	8	4	.218	.500	.094	.343	.063	.027
3/16" - 20	86	8	4	.218	.500	.094	.343	.063	.032
1/4" - 20	88	8	4	.250	1.05	.084	.715	.079	.030
1/4" - 18	108	8	4	.250	1.05	.075	.715	.080	.040
5/16" - 18	95	8	4	.333	1.03	.172	.813	.092	.040
1/2" - 20	40	8	4	.500	1.25	.375	1.00	.079	.029
1/2" - 18	66	8	4	.500	1.25	.312	1.00	.097	.040
1/2" - 16	82	8	4	.500	1.25	.312	1.00	.096	.050
1/2" - 13	140	8	4	.500	1.25	.265	1.00	.107	.070
3/4" - 16	51	8	4	.923	2.10	.750	1.75	.110	.048
3/4" - 13	75	8	4	.923	2.10	.688	1.781	.106	.070
3/4" - 9	171	8	4	.923	2.10	.563	1.688	.165	.120
1" - 16	44	8	4	1.00	2.30	.813	2.10	.098	.051
1" - 14	72	8	4	1.00	2.30	.813	2.00	.125	.070
1" - 12	101	8	4	1.00	2.30	.813	2.00	.156	.085
1" - 10 L	165	8	4	1.00	2.30	.813	2.00	.165	.120
1 1/2" - 13	57	8	4	1.33	3.20	1.060	2.750	.116	.070
1 1/2" - 12	66	8	4	1.33	3.20	1.296	2.750	.110	.085
1 1/2" - 9	114	8	4	1.33	3.20	1.00	2.560	.158	.110
1 1/2" - 10 L	165	8	4	1.33	3.20	.900	2.563	.188	.110

Weights, Gauges, Dimensions and Sizes listed above are approximate.

STOCK SIZES for all meshes listed above 4' (SWD) x 8' (LWD)
Special size sheet can be produced to order.



STANDARD EXPANDED METALS - STEEL

CARBON

STYLE	Lbs. Per 100 Sq. ft. Plain	Standard Sheet Size (ft.)		Design Sizes (inches)		Opening Sizes (inches)		Strand Size (inches)	
		LWD	SWD	SWD	LWD	SWO	LWO	Width	Thick- ness
3/16" - 22	56	8	4	.203	.500	.110	.313	.047	.030
3/16" - 20	90	8	4	.203	.500	.080	.313	.063	.036
1/4" - 20	86	8	4	.250	1.00	.125	.718	.072	.036
1/4" - 18	114	8	4	.250	1.00	.110	.718	.072	.048
5/16" - 20	74	8	4	.292	.750	.158	.563	.067	.036
5/16" - 18	104	8	4	.333	1.000	.188	.688	.084	.048
1/2" - 20	43	8	4	.500	1.20	.438	.938	.072	.036
1/2" - 18	70	8	4	.500	1.20	.438	.938	.088	.048
1/2" - 16	86	8	4	.500	1.20	.375	.938	.087	.060
1/2" - 13	147	8	4	.500	1.20	.312	.938	.096	.090
3/4" - 16	54	8	4	.923	2.00	.813	1.75	.101	.060
3/4" - 13	80	8	4	.923	2.00	.750	1.680	.096	.090
3/4" - 10	120	8	4	.923	2.00	.750	1.625	.144	.090
3/4" - 9	180	8	4	.923	2.00	.688	1.564	.149	.134

Weights, Gauges, Dimensions and Sizes listed above are approximate.

STOCK SIZES for all meshes listed above 4' (SWD) x 8' (LWD)
Special size sheet can be produced to order.



STANDARD EXPANDED METALS - STEEL

CARBON

STYLE	Lbs. Per 100 Sq. ft. Plain	Standard Sheet Size (ft.)		Design Sizes (inches)		Opening Sizes (inches)		Strand Size (inches)	
		LWD	SWD	SWD	LWD	SWO	LWO	Width	Thick- ness
1" - 16	47	8	4	1.00	2.250	.938	2.000	.087	.060
1" - 14	78	8	4	1.000	2.250	.875	1.563	.122	.074
1" - 12	96	8	4	1.000	2.250	.907	1.560	.109	.105
1" - 10L	170	8	4	1.000	2.250	.750	1.563	.155	.135
1" - 10H	200	8	4	1.000	2.250	.750	1.563	.180	.135
1 1/2" - 13	60	8	4	1.33	3.00	1.188	2.500	.105	.090
1 1/2" - 10	79	8	4	1.33	3.00	1.188	2.500	.138	.092
1 1/2" - 12	74	8	4	1.33	3.00	1.112	2.375	.109	.105
1 1/2" - 9	120	8	4	1.33	3.00	1.125	2.375	.142	.134
1 1/2" - 10L	170	8	4	1.33	3.00	1.000	2.375	.200	.135
1 1/2" - 10H	200	8	4	1.33	3.00	.830	2.375	.240	.135
1 1/2" - 6	250	8	4	1.33	3.00	1.110	2.313	.203	.198

Weights, Gauges, Dimensions and Sizes listed above are approximate.

STOCK SIZES for all meshes listed above 4' (SWD) x 8' (LWD)
Special size sheet can be produced to order.



STRUCTURAL GRATING

CARBON

STYLE	Lbs. Per Sq. ft.		Standard Sheet Size (ft.)		Design Sizes (inches)		Opening Sizes (inches)		Strand Size (inches)		Overall Thickness (inches)	No. of Designs per Ft.		% Open Area
	Plain	Gak. Wt.	SWD	LWD	SWD	LWD	SWO	LWO	Width	Thick-ness		SWD	LWD	
3.0 lbs.	3.0	3.15	8 8 8 10	3 4 5.6 3	1.33	5.33	.940	3.44	.264	.183	.540	9	2.25	60
3.14 lbs.	3.14	3.30	8 8 10	3 4 3	2.00	6.00	1.625	4.88	.312	.250	.656	6	2	69
4.0 lbs.	4.0	4.18	8 8 10	3 4 3	1.33	5.33	.940	3.40	.300	.215	.618	9	2.25	55
4.27 lbs.	4.27	4.46	8 8 10	3 4 3	1.41	4.00	1.00	2.88	.300	.250	.625	8.5	3	58
5.0 lbs.	5.0	5.20	8 8 10	3 4 3	1.33	5.33	.813	3.38	.331	.250	.655	9	2.25	50
6.25 lbs.	6.25	6.47	8 8 10	3 4 3	1.41	5.33	.813	3.38	.350	.312	.715	8.5	2.25	50
7.0 lbs.	7.0	7.25	4	8	1.41	5.33	.813	3.38	.391	.312	.740	8.5	2.25	45

Weights, Gauges, Dimensions and Sizes listed above are approximate.

STOCK SIZES for all meshes listed above 8' (SWD) x 4' (LWD)
Special size sheet can be produced to order.



WELDED BAR GRATING

Type 19-4 (Standard")

Cross Bars 4 ins. c. to c.

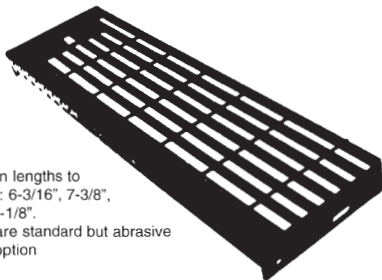
Bearing Bars 1-3/16 ins. c. to c.

Sizes Available	Bearing Bars	Weight
	in.	lbs./sq. ft.
	3/4 x 1/8	3.99
	3/4 x 3/16	5.87
	1 x 1/8	5.15
	1 x 3/16	7.35
	1-1/4 x 1/8	6.20
	1-1/4 x 3/16	9.03
	1-1/2 x 1/8	7.35
	1-1/2 x 3/16	10.95
	1-3/4 x 3/16	12.62
	2 x 3/16	14.30
	2-1/4 x 3/16	15.87
	2-1/2 x 3/16	17.55

Finish factory dip black or red.

*Type 19-4 is our standard recommended for most normal usage. However, types with different spacings are available as specified: 19-2, 15-4, and 15-2. (The figure represents the spacing of the bearing bars in sixteenth of an inch; the second figure the spacing of cross bars in inches).

WELDED STAIR TREADS



Stair treads are available in lengths to suit in the following widths: 6-3/16", 7-3/8", 8-9/16", 10-15/16", and 12-1/8".

Checked plate nosings are standard but abrasive nosing is available as an option

Finish: factory dip red.

**BAR GRATING AND TREADS AVAILABLE IN
BOTH PLAIN AND SERRATED**



DECK SPAN (SAFETY GRATING)

Size In.	Gauge	Length	Wt. Each
4-3/4 x 1-1/2	14	12'	27.60
4-3/4 x 2	14	12'	31.20
4-3/4 x 1-1/2	12	12'	38.40
4-3/4 x 2	12	12'	43.20
7 x 1-1/2	14	12'	36.00
7x 2	14	12'	38.40
7 x 1-1/2	12	12'	49.20
7 x 2	12	12'	54.00
9-1/2 x 1-1/2	14	12'	43.20
9-1/2 x 2	14	12'	45.60
9-1/2 x 1-1/2	12	12'	60.00
9-1/2 x 2	12	12'	64.80
11-3/4 x 1-1/2	14	12'	50.40
11-3/4 x 2	14	12'	52.80
11-3/4 x 1-1/2	12	12'	70.80
11-3/4 x 2	12	12'	74.40
18-3/4 x 1-1/2	14	12'	73.20
18-3/4 x 2	14	12'	75.60
18-3/4 x 1-1/2	12	12'	102.00
18-3/4 x 2	12	12'	106.80
24 x 2	12	12'	124.80
24 x 3	12	12'	133.20

**DECK SPAN IS ALSO AVAILABLE IN ALUMINUM AND
STAINLESS STEEL**



QUICK REFERENCE NOTES

- To find circumference of a circle, multiply diameter by 3.1416.
- To find diameter of a circle, multiply circumference by .31831.
- To find area of a circle, multiply square of radius by 3.1416.
- To find the surface of a sphere, multiply square of diameter by 3.1416.
- To find volume of a sphere, multiply cube of diameter by .5236.
- To find side of an inscribed square, multiply diameter by .7071.
- To find side of an equal square, multiply diameter by .8862
- To find diagonal of a square, multiply side by 1.4142.
- To find diameter of an equal circle, multiply side by 1.128
- To find area of an ellipse, multiply product of both diameters by .7854.
- To find contents of a cone, multiply area of base by 1/3 altitude.
- To find surface of frustrum of a cone or pyramid, multiply sum of circumferences of both ends by 1/2 slant height and add area of both ends.
- To find contents of frustrum of cone or pyramid, multiply areas of top and bottom and take square root. Add area of top and bottom to square root and multiply sum by 1/3 altitude.
- 1 cubic foot of water at 62°F weighs 62.355 lbs. and contains 6.23 Imperial gallons (7.48 U.S. gallons).
- 1 Imperial gallon = 277.41 cubic inches; 1 U.S. gallon = 231 cubic inches.
- To find pressure in pounds per square inch of a column of water, multiply height of the column in feet by .433.
- One horsepower is the amount of energy required to raise 33,000 lbs. one foot per minute.
- One horsepower = .746 kilowatts = 30 pounds of water evaporated per hour from a feed water temperature of 100°F into steam at 70 lbs. gauge pressure.
- To convert temperatures from Fahrenheit to Centigrade and vice versa, substitute in the following formula:

$$\frac{F - 32}{180} = \frac{C}{100}$$

- To find gallons per tank, multiply length x width x height, divide by 236, multiply x .86



DECIMALS OF AN INCH FOR EACH 64TH

with millimeter equivalents

Fraction	64ths	Decimal	Millimeters	Fraction	64ths	Decimal	Millimeters
-	1	.015625	0.39688	-	33	.515625	13.09690
1/32	2	.03125	0.79375	17/32	34	.53125	13.49378
-	3	.046875	1.19063	-	35	.546875	13.89065
1/16	4	.0625	1.58750	9/16	36	.5625	14.28753
-	5	.078125	1.98438	-	37	.578125	14.68440
3/32	6	.09375	2.38125	19/32	38	.59375	15.08128
-	7	.109375	2.77813	-	39	.609375	15.47816
1/8	8	.125	3.17501	5/8	40	.625	15.87503
-	9	.140625	3.57188	-	41	.640625	16.27191
5/32	10	.15625	3.96876	21/32	42	.65625	16.66878
-	11	.171875	4.36563	-	43	.671875	17.06566
3/16	12	.1875	4.76251	11/16	44	.6875	17.46253
-	13	.203125	5.15939	-	45	.708125	17.85941
7/32	14	.21875	5.55626	23/32	46	.71875	18.25629
-	15	.234375	5.95314	-	47	.734375	18.65316
1/4	16	.25	6.35001	3/4	48	.75	19.05004
-	17	.265625	6.74689	-	49	.765625	19.44691
9/32	18	.28125	7.14376	25/32	50	.78125	19.84379
-	19	.296875	7.54064	-	51	.796875	20.24067
5/16	20	.3125	7.93752	13/16	52	.8125	20.63754
-	21	.328125	8.33439	-	53	.828125	21.03442
11/32	22	.34875	8.73127	27/32	54	.84875	21.43129
-	23	.359375	9.12814	-	55	.859375	21.82817
3/8	24	.375	9.52502	7/8	56	.875	22.22504
-	25	.390625	9.92189	-	57	.890625	22.62192
13/32	26	.40625	10.31877	29/32	58	.90625	23.01880
-	27	.421875	10.71565	-	59	.921875	23.41567
7/16	28	.4375	11.11252	15/16	60	.9375	23.81255
-	29	.453125	11.50940	-	61	.953125	25.20942
15/32	30	.46875	11.90627	31/32	62	.96875	24.60630
-	31	.484375	12.30315	-	63	.984375	25.00308
1/2	32	.5	12.70003	1	64	1	25.40005

IRONMAN™

