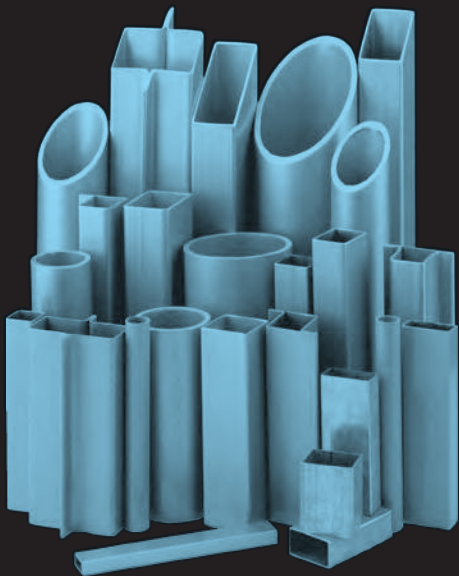


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# **Reference Book**



## **PROCESSING SERVICES**

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**ROUNDS  
HOT ROLLED****SPEC 44W, 50W - ASTM A36, A572G50**

Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
1/8	.042	2	10.68
5/32	.065	2-1/16	11.36
3/16	.094	2-1/8	12.06
7/32	.128	2-3/16	12.78
1/4	.167	2-1/4	13.52
9/32	.211	2-5/16	14.28
5/16	.261	2-3/8	15.06
11/32	.316	2-7/16	15.87
3/8	.376	2-1/2	16.69
7/16	.511	2-9/16	17.53
1/2	.668	2-5/8	18.40
9/16	.845	2-11/16	19.29
5/8	1.04	2-3/4	20.20
11/16	1.26	2-13/16	21.12
3/4	1.50	2-7/8	22.07
13/16	1.76	2-15/16	23.04
7/8	2.04		
15/16	2.35		
1	2.67	3	24.03
1-1/16	3.01	3-1/16	25.04
1-1/8	3.38	3-1/8	26.08
1-3/16	3.77	3-3/16	27.13
1-1/4	4.17	3-1/4	28.21
1-5/16	4.60	3-5/16	29.30
1-3/8	5.05	3-3/8	30.42
1-7/16	5.52	3-7/16	31.55
1-1/2	6.01	3-1/2	33.02
1-9/16	6.52	3-9/16	33.89
1-5/8	7.05	3-5/8	35.09
1-11/16	7.60	3-11/16	36.21
1-3/4	8.18	3-3/4	37.55
1-13/16	8.77	3-13/16	38.81
1-7/8	9.39	3-7/8	40.10
1-15/16	10.02	3-15/16	41.40

**SQUARES  
HOT ROLLED****SPEC 44W, 50W - ASTM A36, A572G50**

Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
1/8	.053	2	13.60
3/16	.120	2-1/8	15.37
1/4	.213	2-1/4	17.23
5/16	.332	2-3/8	19.20
3/8	.478	2-1/2	21.27
7/16	.651	2-5/8	23.45
1/2	.850	2-3/4	25.74
9/16	1.08		
5/8	1.33	3	30.63
11/16	1.61	3-1/4	35.95
3/4	1.91	3-1/2	41.69
13/16	2.25	3-3/4	47.86
7/8	2.60		
15/16	2.99	4	54.45
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		

## FLATS

### HOT ROLLED

#### SPEC 44W, 50W - ASTM A36, A572G50

Size In.	Wt. 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

Size In.	Wt. 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	1.70
2-1/2	2.13
3	2.55
3-1/2	2.98
4	3.40
4-1/2	3.83
5	4.25
5-1/2	4.68
6	5.10
7	5.95
8	6.80
10	8.51

Size In.	Wt. lbs./ft.
3/8 x 3/4	.956
1	1.28
1-1/4	1.59
1-1/2	1.91
2	2.55
2-1/2	3.19
3	3.83
3-1/2	4.46
4	5.10
4-1/2	5.74
5	6.38
6	7.65
7	8.93
8	10.20
10	12.75
12	15.30

Size In.	Wt. lbs./ft.
3/16 x 1/2	.319
3/4	.478
1	.638
1-1/4	.797
1-1/2	.956
1-3/4	1.12
2	1.28
2-1/2	1.59
3	1.91
3-1/2	2.23
4	2.55
4-1/2	2.87
5	3.19
6	3.83
8	5.10

Size In.	Wt. 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	4.25
4-1/2	4.78
5	5.31
6	6.38
7	7.44
8	8.50

Size In.	Wt. lbs./ft.
1/2 x 1	1.70
1-1/4	2.13
1-1/2	2.55
2	3.40
2-1/2	4.25
3	5.10
3-1/2	5.95
4	6.80
4-1/2	7.65
5	8.50
6	10.20
7	11.90
8	13.60
10	17.00
12	20.40

## FLATS

### HOT ROLLED

#### SPEC 44W, 50W - ASTM A36, A572G50

Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
5/8 x 1	2.13	7/8 x 1	2.98	1-1/4 x 1-1/2	6.38
1-1/2	3.19	1-1/2	4.46	2	8.51
2	4.25	2	5.95	3	12.75
2-1/2	5.31	2-1/2	7.44	4	17.00
3	6.38	3	8.93	6	25.50
3-1/2	7.44	3-1/2	10.41	8	34.03
4	8.50	4	11.90	10	42.54
4-1/2	9.56	4-1/2	13.39	12	51.05
5	10.63	5	14.88		
6	12.75	6	17.85		
7	14.88	8	23.82		
8	17.00	10	29.76		
10	21.25	12	35.73		
12	25.50				

Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.	Size In.	Wt. lbs./ft.
3/4 x 1	2.55	1 x 1-1/2	5.10	1-1/2 x 2	10.21
1-1/2	3.83	2	6.80	3	15.31
2	5.10	2-1/2	8.50	4	20.42
2-1/2	6.38	3	10.20	6	30.63
3	7.65	3-1/2	11.90	8	40.84
3-1/2	8.93	4	13.60	10	51.05
4	10.20	5	17.00	12	61.26
4-1/2	11.48	6	20.40		
5	12.75	8	27.20		
6	15.30	10	34.00		
8	20.40	12	40.80		
10	25.50				
12	30.60				



## ANGLES BAR SIZE

SPEC 44W, 50W - ASTM A36, A572G50

Size In.	Thickness In.	Wt. lbs./ft.
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 1/4 x 2 1/4	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

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

**ANGLES  
STRUCTURAL****SPEC 44W, 50W - ASTM A36, A572G50**

Size In.	Thickness In.	Wt. lbs./ft.
4 x 3 1/2	1/4	6.2
	5/16	7.7
	3/8	9.1
	1/2	11.9
4 x 4	1/4	6.6
	5/16	8.2
	3/8	9.8
	1/2	12.8
	5/8	15.7
5 x 3	1/4	6.6
	5/16	8.2
	3/8	9.8
	1/2	12.8
5 x 3 1/2	1/4	7.0
	5/16	8.7
	3/8	10.4
	1/2	13.6
	5/8	16.8
5 x 5	3/4	19.8
	5/16	10.3
	3/8	12.3
	1/2	16.2
	5/8	20.0
	3/4	23.6
6 x 3 1/2	7/8	27.2
	1/4	7.9
	5/16	9.8
	3/8	11.7
6 x 4	1/2	15.3
	5/16	10.3
	3/8	12.3
	1/2	16.2
	5/8	20.0
6 x 4	3/4	23.6
	7/8	27.2

Size In.	Thickness In.	Wt. lbs./ft.
6 x 6	5/16	12.4
	3/8	14.9
	1/2	19.6
	5/8	24.2
	3/4	28.7
	1	37.4
7 x 4	3/8	13.6
	1/2	17.9
	9/16	20.0
	5/8	22.1
	3/4	26.2
8 x 4	7/8	30.2
	1/2	19.6
8 x 6	3/4	28.7
	1/2	23.0
	5/8	28.5
8 x 6	3/4	33.8
	1	44.2
	1/2	26.4
	5/8	32.7
8 x 8	3/4	38.9
	1	51.0

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

Imperial Designation In.	Metric Designation mm	Weight lbs./ft.
1 x 1/2 x 1/8	25.4 x 12.7 x 3.2	.84
1 1/4 x 1/2 x 1/8	31.8 x 12.7 x 3.2	1.00
1 1/2 x 1/2 x 1/8	38.1 x 12.7 x 3.2	1.13
2 x 1 x 3/16	50.8 x 25.4 x 4.8	2.32



## STANDARD CHANNELS SPEC 44W, 50W - ASTM A36, A572G50

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



## MISCELLANEOUS CHANNELS SPEC 44W, 50W - ASTM A36, A572G50

New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. <sup>2</sup>			
Old Imp.	CDN Metric		Width In.	Thickness (mean) In.					
MC4	x 13.8	MC100	x 20.6	4.00	2.50	.500	.500	4.43	
MC6	x 12.0	MC150	x 17.9	6.00	2.50	.375	.310	6.23	
	x 15.1				x 22.5	2.94	.475	.316	8.33
	x 15.3				x 22.8	3.50	.385	.340	8.47
	x 16.3				x 24.3	3.00	.475	.375	8.67
	x 18.0				x 26.8	3.50	.475	.379	9.90
MC7	x 19.1	x 28.4	7.00	3.45	.500	.350	12.3		
	x 22.7			x 33.8	3.60	.500	.503	13.6	
MC8	x 8.5	MC200	x 12.6	8.00	1.87	.311	.179	5.83	
	x 18.7				x 27.8	2.98	.500	.353	13.1
	x 20.0				x 29.8	3.02	.500	.400	13.6
	x 21.4				x 31.8	3.45	.525	.375	15.4
	x 22.8				x 33.9	3.50	.525	.427	16.0
MC9	x 23.9	MC230	x 35.6	9.00	3.45	.550	.400	18.9	
	x 25.4				x 37.8	3.50	.550	.450	19.6
MC10	x 8.4	x 12.5	10.00	1.50	.280	.170	6.40		
	x 22			x 32.6	3.32	.575	.290	19.7	
	x 25			x 37.1	3.40	.575	.377	22.0	
	x 28.5			x 42.4	3.95	.575	.425	25.4	
	x 33.6			x 50.0	4.10	.575	.575	27.8	
	x 41.1			x 61.2	4.32	.575	.796	31.6	
MC12	x 10.6	MC310	x 15.8	12.00	1.50	.309	.190	9.23	
	x 31				x 46.0	3.45	.600	.450	30.5
	x 35.0				x 52.0	3.77	.700	.467	36.0
	x 40.0				x 60.0	3.89	.700	.590	39.0
	x 45.0				x 67.0	4.01	.700	.712	42.0
	x 50.0				x 74.0	4.14	.700	.835	44.8
MC13	x 31.8	MC330	x 47.3	13.00	4.00	.610	.375	36.8	
	x 35.0				x 52.0	4.07	.610	.447	38.8
	x 40.0				x 60.0	4.18	.610	.560	42.0
	x 50.0				x 74.0	4.41	.610	.787	48.3
MC18	x 42.7	MC460	x 63.5	18.00	3.95	.625	.450	61.6	
	x 45.8				x 68.2	4.00	.625	.500	64.2
	x 51.9				x 77.2	4.10	.625	.600	69.7
	x 58.0				x 86.0	4.20	.625	.700	75.1



## STANDARD BEAMS SPEC A-36/44W/A572-50

Old Imp.	New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. <sup>3</sup>
	Imp.	CDN Metric		Width In.	Thickness (mean) In.		
S3	x 5.7	S75 x 8	3.00	2.33	.260	.170	1.68
	x 7.5	x 11		2.51	.260	.349	1.95
S4	x 7.7	S100 x 11	4.00	2.66	.293	.193	3.04
	x 9.5	x 14.1		2.80	.293	.326	3.40
S5	x 10.0	S130 x 15	5.00	3.00	.326	.214	4.92
	x 14.75	x 22		3.28	.326	.494	6.08
S6	x 12.5	S150 x 19	6.00	3.33	.359	.232	7.37
	x 17.25	x 26		3.57	.359	.465	8.77
S7	x 15.3	S180 x 22.8	7.00	3.66	.392	.252	10.5
	x 20.0	x 30		3.86	.392	.450	12.1
S8	x 18.4	S200 x 27	8.00	4.00	.425	.271	14.4
	x 23.0	x 34		4.17	.425	.441	16.2
S10	x 25.4	S250 x 38	10.00	4.66	.491	.311	24.8
	x 35.0	x 52		4.94	.491	.594	29.4
S12	x 31.8	S310 x 47	12.00	5.00	.544	.350	36.3
	x 35.0	x 52		5.08	.544	.428	38.2
S12	x 40.8	S310 x 60.7	12.00	5.25	.659	.462	45.3
	x 50.0	x 74		5.48	.659	.687	50.8
S15	x 42.9	S380 x 64	15.00	5.50	.622	.411	59.6
	x 50.0	x 74		5.64	.622	.550	64.8
S18	x 54.7	S460 x 81.4	18.00	6.00	.691	.460	89.3
	x 70.0	x 104		6.25	.691	.711	103
S20	x 66.0	S510 x 97.3	20.00	6.26	.795	.505	119
	x 75.0	x 112		6.38	.795	.635	128
S20	x 86.0	S510 x 127	20.30	7.06	.920	.660	155
	x 96.0	x 141		7.20	.920	.800	165
S24	x 80.0	S610 x 118.9	24.00	7.00	.870	.500	175
	x 90.0	x 134		7.12	.870	.625	187
	x 100.0	x 149		7.24	.870	.745	199
S24	x 106	S610 x 157.6	24.50	7.87	1.09	.620	240
	x 121	x 179		8.05	1.09	.800	258



## WIDE FLANGE BEAMS

ASTM A572-50, A992, 50W

New Designation				Depth In.	Flange		Web Thickness In.	Section Modulus In.
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 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 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	112.0



## WIDE FLANGE BEAMS

SPEC ASTM A572-50, A992, 50W

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



## WIDE FLANGE BEAMS

SPEC ASTM A572-50, A992, 50W

New Designation				Depth In.	Flange		Web Thickness In.	Section Modulus In. <sup>3</sup>
ASTM Imp.	CDN Metric	x	x		Width In.	Thickness (mean) In.		
W14	x 90	W360	x 134	14.02	14.52	.710	.440	143
	x 99		x 147	14.16	14.56	.780	.485	157
	x 109		x 162	14.32	14.60	.860	.525	173
	x 120		x 179	14.48	14.67	.940	.590	190
	x 132		x 196	14.66	14.72	1.03	.645	209
W14	x 145	W360	x 216	14.78	15.50	1.09	.680	232
	x 159		x 237	14.98	15.56	1.19	.745	254
	x 176		x 262	15.22	15.65	1.31	.830	281
	x 193		x 287	15.48	15.71	1.44	.890	310
	x 211		x 314	15.72	15.80	1.56	.980	338
	x 233		x 347	16.04	15.89	1.72	1.07	375
	x 257		x 382	16.38	16.00	1.89	1.18	415
	x 283		x 421	16.74	16.11	2.07	1.29	459
	x 311		x 463	17.12	16.23	2.26	1.41	506
	x 342		x 509	17.54	16.36	2.47	1.54	559
	x 370		x 551	17.92	16.48	2.66	1.66	607
	x 398		x 592	18.29	16.59	2.84	1.77	656
	x 426		x 634	18.67	16.70	3.04	1.88	707
	x 455		x 677	19.02	16.84	3.21	2.02	756
	x 500		x 744	19.60	17.01	3.50	2.19	838
x 550	x 818	20.24	17.20	3.82	2.38	931		
x 605	x 900	20.92	17.42	4.16	2.60	1040		
x 665	x 990	21.64	17.65	4.52	2.83	1150		
x 730	x 1086	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		x 46	15.88	5.52	.440	.275	47.2
W16	x 36	W410	x 54	15.86	6.98	.430	.295	56.5
	x 40		x 60	16.01	7.00	.505	.305	64.7
	x 45		x 67	16.13	7.04	.565	.345	72.7
	x 50		x 74	16.26	7.07	.630	.380	81.0
	x 57		x 85	16.43	7.12	.715	.430	92.2
W16	x 67	W410	x 100	16.33	10.24	.665	.395	117
	x 77		x 114	16.52	10.30	.760	.455	134
	x 89		x 132	16.75	10.36	.875	.525	155
	x 100		x 149	16.97	10.42	.985	.585	175





## WIDE FLANGE BEAMS SPEC ASTM A572-50, A992, 50W

New Designation				Depth In.	Flange		Web Thickness In.	Section Modulus In. <sup>3</sup>
ASTM Imp		CDN Metric			Width In.	Thickness (mean) In.		
W18	x 35	W460	x 52	17.70	6.00	.425	.300	57.6
	x 40		x 60	17.90	6.02	.525	.315	68.4
	x 46		x 68	18.06	6.06	.605	.360	78.8
W18	x 41	W460	x 61	17.70	7.45	.425	.320	70.3
	x 45		x 67	17.86	7.48	.499	.335	80.5
	x 50		x 74	17.99	7.50	.570	.335	88.9
	x 55		x 82	18.11	7.53	.630	.390	98.3
	x 60		x 89	18.24	7.56	.695	.415	108
	x 65		x 97	18.35	7.59	.750	.450	117
	x 71		x 105	18.47	7.64	.810	.495	127
	W18		x 76	W460	x 113	18.21	11.04	.680
x 86		x 128	18.39		11.09	.770	.480	166
x 97		x 144	18.59		11.14	.870	.535	188
x 106		x 158	18.73		11.20	.940	.590	204
x 119		x 177	18.97		11.26	1.06	.655	231
W21		x 44	W530		x 66	20.66	6.50	.450
	x 50	x 74		20.83	6.53	.535	.380	94.5
	x 57	x 85		21.06	6.56	.650	.405	111
W21	x 48	W530	x 72	20.06	8.14	.430	.350	93.8
	x 55		x 82	20.80	8.22	.522	.375	110
	x 62		x 92	20.99	8.24	.615	.400	127
	x 68		x 101	21.13	8.27	.685	.430	140
	x 73		x 109	21.24	8.30	.740	.455	151
	x 83		x 123	21.43	8.36	.835	.515	171
	x 93		x 138	21.62	8.42	.930	.580	192
W21	x 101	W530	x 150	21.36	12.29	.800	.500	227
	x 111		x 165	21.51	12.34	.875	.550	249
	x 122		x 182	21.68	12.39	.960	.600	273
	x 132		x 196	21.83	12.44	1.04	.650	295
	x 147		x 219	22.06	12.51	1.15	.720	329
W24	x 55	W610	x 82	23.57	7.00	.505	.395	114
	x 62		x 92	23.74	7.04	.590	.430	131
W24	x 56	W610	x 84	23.48	8.90	.460	.355	126
	x 61		x 91	23.56	8.93	.500	.380	136
	x 68		x 101	23.73	8.96	.585	.415	154
	x 76		x 113	23.92	8.99	.680	.440	176
	x 84		x 125	24.10	9.02	.770	.470	196
	x 94		x 140	24.31	9.06	.875	.515	222
W24	x 104	W610	x 155	24.06	12.75	.750	.500	258
	x 117		x 174	24.26	12.80	.850	.550	291
	x 131		x 195	24.48	12.86	.960	.605	329
	x 146		x 217	24.74	12.90	1.09	.650	371
	x 162		x 241	25.00	12.96	1.22	.705	414



## WIDE FLANGE BEAMS SPEC ASTM A572-50, A992, 50W

	New Designation		Depth In.	Flange		Web Thickness In.	Section Modulus In. <sup>3</sup>
	ASTM Imp.	CDN Metric		Width In.	Thickness (mean) In.		
W27	x 84	W690 x 125	26.71	9.96	.640	.460	213
	x 94	x 140	26.92	9.99	.745	.490	243
	x 102	x 152	27.09	10.02	.830	.515	267
	x 114	x 170	27.29	10.07	.930	.570	299
W27	x 146	W690 x 217	27.38	13.96	.975	.605	411
	x 161	x 240	27.59	14.02	1.08	.660	455
	x 178	x 265	27.81	14.08	1.19	.725	502
W30	x 90	W760 x 134	29.53	10.40	.610	.470	245
	x 108	x 161	29.83	10.48	.760	.545	299
	x 116	x 173	30.01	10.50	.850	.565	329
	x 124	x 185	30.17	10.52	.930	.585	355
	x 132	x 196	30.31	10.54	1.00	.615	380
W30	x 173	W760 x 257	30.44	14.98	1.06	.655	541
	x 191	x 284	30.68	15.04	1.18	.710	600
	x 211	x 314	30.94	15.10	1.31	.775	665
W33	x 118	W840 x 176	32.86	11.48	.740	.550	359
	x 130	x 193	33.09	11.51	.855	.580	406
	x 141	x 210	33.30	11.54	.960	.605	448
	x 152	x 226	33.49	11.56	1.06	.635	487
W33	x 201	W840 x 299	33.68	15.74	1.15	.715	686
	x 221	x 329	33.93	15.80	1.28	.775	759
	x 241	x 359	34.18	15.86	1.40	.830	831
W36	x 135	W920 x 201	35.55	11.95	.790	.600	439
	x 150	x 223	35.85	11.98	.940	.625	504
	x 160	x 238	36.01	12.00	1.02	.650	542
	x 170	x 253	36.17	12.03	1.10	.680	581
	x 182	x 271	36.33	12.08	1.18	.725	623
	x 194	x 289	36.49	12.12	1.26	.765	664
	x 210	x 313	36.69	12.18	1.36	.830	719
	x 231	W920 x 344	35.90	16.47	1.26	.760	854
W36	x 247	x 368	36.08	16.51	1.35	.800	913
	x 262	x 390	36.26	16.55	1.44	.840	972
	x 282	x 420	36.52	16.60	1.57	.885	1050
	x 302	x 449	36.74	16.66	1.68	.945	1130

**ROUNDS  
COLD FINISHED  
SPEC C1018**

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	.094	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	4-7/18	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	10.58	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	88.29
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	2.61
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	7.66
1-5/8	8.98
1-3/4	10.41
1-7/8	11.95
2	13.61
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 •

## **REINFORCING BARS G400 W**

METRIC STANDARD REINFORCING BARS								
BAR SIZE	MASS	WEIGHT	NOMINAL DIMENSIONS - ROUND BARS					
			Diameter		Cross Sectional Area		Perimeter	
Designation	Kg./m	lbs/ft	mm.	In.	mm. <sup>2</sup>	In <sup>2</sup>	mm.	In.
10M	.785	.528	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

The nominal dimension 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	
	MPa	Ksl	MPa	Ks
300	450	65.3	300	43.5
350	550	79.8	350	50.8
400	600	87.0	400	58.0

<sup>2</sup>Yield Point

## HOT ROLLED SHEETS ASTM A1011

Size in Inches	Weight Per Sheet	Size in Inches	Weight Per Sheet
16 ga.= .060" = 2.500 lbs. per sq. ft.		11 ga.= .119" = 5.00 lbs. per sq. ft.	
16 ga. 48 x 96 .....	80.00	11 ga. 48 x 96 .....	160.00
120 .....	100.00	120 .....	200.00
144 .....	120.00	144 .....	240.00
60 x 120 .....	125.00	60 x 120 .....	250.00
144 .....	150.00	144 .....	300.00
14 ga.= .074" = 3.125 lbs. per sq. ft.		72 x 120 .....	
14 ga. 48 x 96 .....	100.00	144 .....	360.00
120 .....	125.00	10 ga.= .134" = 5.625 lbs. per sq. ft.	
144 .....	150.00	10 ga. 48 x 96 .....	180.00
60 x 120 .....	156.25	120 .....	225.00
144 .....	187.50	144 .....	270.00
72 x 120 .....	187.50	60 x 120 .....	281.25
144 .....	225.00	144 .....	337.50
12 ga.= .104" = 4.375 lbs. per sq. ft.		72 x 120 .....	337.50
12 ga. 48 x 96 .....	140.00	144 .....	405.00
120 .....	175.00	Weights may vary due to production tolerances	
144 .....	210.00		
60 x 120 .....	218.75	Weights may vary due to production tolerances.	
144 .....	262.50		
72 x 120 .....	262.50		
144 .....	315.00		

Please contact our sales department for special lengths.

# **PRICE STEEL LTD.**

## **ASTM - A36 or CSA G40.21- 44W/300W Steel Plates**

Size in Inches	Weight Per Sheet	Size in Inches	Weight Per Sheet
<b>1" = 1.000" = 40.84 lbs. per sq. ft.</b>		<b>1 5/8" = 1.625 x 66.36 lbs. per sq. ft.</b>	
1" x 48 x 96 .....	1306.88	1 5/8" x 96" x 240 .....	10618.00
120 .....	1633.80	<b>1 3/4" = 1.750" = 71.47 lbs. per sq. ft.</b>	
144 .....	1960.32	1 3/4" x 48 x 96 .....	2287.04
240 .....	3267.20	60 x 240 .....	7147.00
288 .....	3920.64	72 x 240 .....	8576.40
60 x 120 .....	2042.00	288 .....	10291.68
144 .....	2450.40	96 x 288 .....	13722.24
240 .....	4084.00	<b>2" = 2.000" = 81.26 lbs. per sq. ft.</b>	
288 .....	4900.80	2" x 48 x 96 .....	2613.76
72 x 120 .....	2450.40	60 x 240 .....	8168.00
144 .....	2940.48	72 x 240 .....	9801.60
240 .....	4900.80	288 .....	11761.92
288 .....	5880.96	96 x 240 .....	13068.80
384 .....	7841.28	288 .....	15682.56
96 x 120 .....	3267.20	<b>2 1/4" = 2.250" = 91.89 lbs. per sq. ft.</b>	
144 .....	3920.64	2 1/4 x 96 x 240.....	14702.40
240 .....	6534.40	<b>2 1/2" = 2.500" = 102.1 lbs. per sq. ft.</b>	
288 .....	7841.28	2 1/2" x 96 x 240 .....	16336.00
384 .....	10455.04	<b>2 3/4" = 2.750" = 112.3 lbs. per sq. ft.</b>	
120 x 240 .....	8168.00	2 3/4 96 x 240 .....	17968.00
480 .....	16336.00	<b>3" = 3.000" = 122.5 lbs. per sq. ft.</b>	
<b>1 1/8" = 1.125" = 45.95 lbs. per sq. ft.</b>		3" x 96 x 240.....	19600.00
1 1/8" x 48 x 96 .....	1470.40	<b>3 1/2" = 3.500" = 142.9 lbs. per sq. ft.</b>	
96 x 288 .....	8822.40	3 1/2 x 96 x 192.....	15433.20
<b>1 1/4" = 1.250" = 51.05 lbs. per sq. ft.</b>		240.....	22864.00
1 1/2" x 48 x 96 .....	1633.60	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
60 x 240 .....	5105.00	4" x 96 x 192.....	20915.20
72 x 288 .....	7351.20	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
96 x 288 .....	9801.60	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
120 x 240 .....	10210.00	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
<b>1 3/8" = 1.375" = 56.16 lbs. per sq. ft.</b>		<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
<b>1 3/8" = 96 x 288.....10782.72</b>		<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
<b>1 1/2" = 1.500" = 61.26 lbs. per sq. ft.</b>		<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
1 1/2" x 48 x 96 .....	1960.32	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
60 x 240 .....	6126.00	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
288 .....	7351.20	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
72 x 288 .....	8821.44	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
96 x 240 .....	9801.60	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
288 .....	11761.92	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	
120 x 480 .....	24504.00	<b>4" = 4.000" = 163.4 lbs. per sq. ft.</b>	

Size shown are not necessarily stock items and are shown for weight reference only.

**STEEL PLATES**  
**SPEC ASTM A36, A572G50, 38W,**  
**44W, API 650**

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 (490.08 lbs./cu. ft.)

**50W, QT100, AR400, ASTM, A516G70N, 350WT also in stock**

**INQUIRE FOR OTHER GRADES**



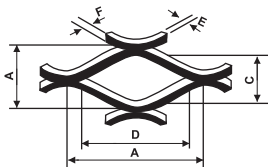
**HOT ROLLED CARBON STEEL  
CHECKERED PLATE  
A786 / A36**

<b>Gauge</b>	<b>Thickness • In.</b>	<b>Pounds Per Square</b>
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 a measured exclusive of raised figures.

***OUR MOST POPULAR PRODUCT IS OUR SERVICE***

## EXPANDED METAL SHEETS (STEEL)



- A. WIDTH OF MESH (SWD)      D. LENGTH OF OPENING  
 B. LENGTH OF MESH (LWD)      E. STRAND THICKNESS  
 C. WIDTH OF OPENING      F. STRAND WIDTH

This material has advantages in saving in weight and metal, free passage of light and air and spilled liquids and a decorative effect. Applications include machinery guards, walkways and catwalk gratings, shelving, partitions, grilles, screens panels, etc.

### STANDARD RAISED MESH

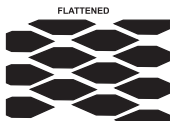
Style (Use for ordering)	Approx. Wt. Per Sheet	Centre to Centre of Bridges		Size of Openings		Strand		% Open Area
		A SWD	B LWD	C SWD	O LWD	E Thick	F Width	
3/16-22	18	.203	.500	.110	.313	.030	.047	52-58
3/16-20	29	.200	.500	.080	.313	.036	.063	40-44
5/16-18	33	.292	.750	.108	.563	.048	.087	48-54
1/2-18	22	.500	1.200	.438	.938	.048	.082	72-78
1/2-16	25	.500	1.200	.375	.938	.060	.087	61-65
1/2-13	47	.500	1.200	.312	.938	.090	.096	52-58
3/4-16	17	.932	2.000	.813	1.750	.060	.099	84-88
3/4-13	26	.932	2.000	.750	1.680	.090	.098	76-80
3/4-9	58	.932	2.000	.688	1.500	.135	.149	65-70
1-16	20	1.125	2.375	.844	1.690	.060	.124	76-81
1-14	24	1.125	2.375	.875	1.563	.075	.122	75-79
1-12	33	1.125	2.375	.907	1.563	.105	.109	71-75
1-10H	64	1.125	2.375	.750	1.563	.135	.188	67-71
1-10H*	64	1.125	2.375	.750	1.563	.135	.178	67-71
1 1/2-10H	64	1.330	3.000	.830	2.375	.135	.240	70-74

Stock size for all above is 4' SWD x 8' LWD.

H = Heavy    G = Gauge    L = Light

\*8 SWD x 4' LWD

## EXPANDED METAL SHEETS (STEEL)



All weights and dimensions shown are approximate.  
Most styles of steel expanded metal sheets can be readily galvanized.  
Please contact our sales department for styles not listed or for your specific requirements.

### FLATTENED MESH

Style (Use for ordering)	Approx. Wt. Per Sheet	Centre to Centre of Bridges		Size of Openings		Strand		% Open Area
		A SWD	B LWD	C SWD	D LWD	E Thick	F Width	
3/16-22F	17	.218	.500	.094	.343	.027	.063	39-43
3/16-20F	28	.218	.500	.094	.343	.032	.063	39-43
5/16-18F	30	.375	.750	.191	.563	.040	.092	43-47
1/2-18F	21	.500	1.250	.313	1.000	.040	.097	53-57
1/2-16F	24	.500	1.250	.313	1.000	.050	.096	53-57
1/2-13F	45	.500	1.250	.375	1.000	.070	.110	50-56
3/4-16F	17	.923	2.100	.750	1.750	.048	.110	74-78
3/4-13F	24	.923	2.100	.688	1.781	.070	.108	72-77
3/4-9F	56	.923	2.100	.563	1.688	.120	.165	63-69
1-16F	19	1.312	2.375	1.000	2.000	.051	.132	73-76
1-14F	23	1.312	2.375	1.000	2.000	.070	.125	70-75
1-12F	32	1.312	2.375	1.000	2.000	.085	.156	66-71
1 1/2-13F	18	1.330	3.200	1.060	2.750	.070	.120	77-82
1 1/2-9F	36	1.330	3.200	1.000	2.560	.110	.158	72-78
1 1/2-10LF	53	1.330	3.200	1.000	2.690	.120	.175	65-69

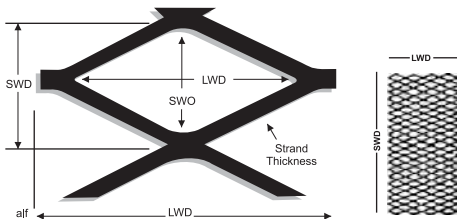
Stock size for all above is 4' SWD x 8' LWD

### HEAVY GRATINGS

Style (Use for ordering)	Approx. Wt. Per Sheet	Centre to Centre of Bridges		Size of Openings		Strand		% Open Area
		A SWD	B LWD	C SWD	O LWD	E Thick	F Width	
3 lb. Grating	132 96	1.33	5.33 Sheet size	.940	3.440	.183	.264	60
4 lb. Grating	128	1.33	5.33 Sheet Size	.940	3.440	.215	.300	55
5 lb. Grating	160	1.33	5.33 Sheet size	.813	3.380	.250	.331	50
6.25 lb. Grating	200	1.410	5.33 Sheet size	.813	3.380	.250	.410	50

## 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 bounds.

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

Strand Thickness: Gauge thickness of the material before expanding.

Strands Width: Thickness of the material in one strand.

## **WELDED BAR GRATING**

Type 19-4 (Standard")

Cross Bars 4 ins. c. to c.

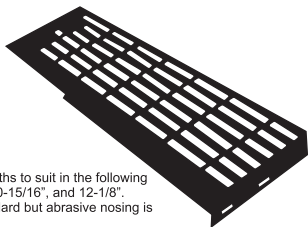
Bearing Bars 1-3/16 ins. c. to c.

<b>Size Available</b>	<b>Bearing Bars In.</b>	<b>Weight lbs./sq. ft</b>
	3/4 x 1/8	3.9
	3/4 x 3/16	5.6
	1 x 1/8	5.0
	1 x 3/16	7.2
	1 - 1/4 x 1/8	6.1
	1 - 1/4 x 3/16	8.9
	1 - 1/2 x 1/8	7.2
	1 - 1/2 x 3/16	10.5
	1 - 3/4 x 3/16	12.2
	2 x 3/16	13.9
	2 - 1/4 x 3/16	15.5
	2 - 1/2 x 3/16	17.2

### **Finish factory dip black or red.**

\* Type 19-4 is our standard recommended for most normal usage. However, types with different spacing 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**



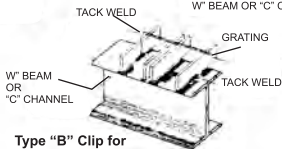
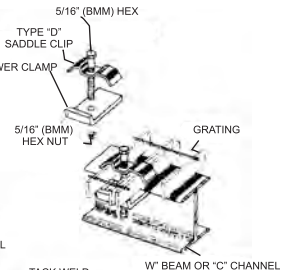
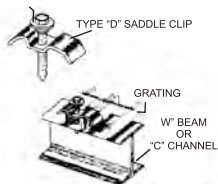
Stairs treads are available in lengths to suit in the following widths: 6-3/16", 7-3/8", 8-9/16", 10-15/16", and 12-1/8". Checkered plate nosing are standard but abrasive nosing is available as an option.  
Finish: plain, black, red.

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

## FASTENING METHODS

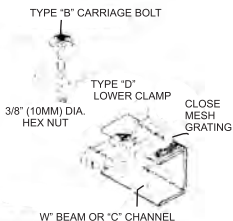
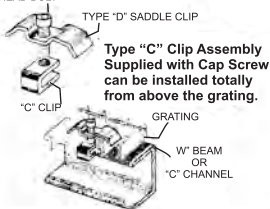
### Type "D" Clip for Type 19 & Type grating only.

1/4" (6mm) SELF-TAPPING SCREW



### Type "B" Clip for Type 11 & Type 9.5 gratings only.

5/16" (BMM) SOCKET HEAD BOLT



## SAFETY - GRIP CHANNEL

Standard Stock Channels



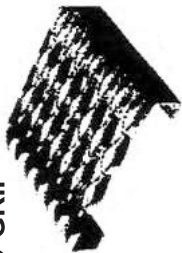
- Pre-galvanized Steel 13 and 11 gauge
- 5052H32 Aluminum 125" thick to 18" wide
- Type 316 2B Stainless Steel 14 gauge to 12" wide
- Type 304 2B Stainless steel 16 gauge 12" wide on special orders.
- 11 and 13 gauge HRPO Steel available in special order.

WIDTH	STOCK LENGTH	CHANNEL HEIGHT
5"	144"	1 1/2" . 2"
7"	144"	1 1/16 2" . 2"
10"	144"	1 1/2 2" . 3"
12"	144"	1 1/3 2" . 3"
18"	144"	1 1/4 2" . 3"
24"	144"	2" . 3"
30"	144"	2" . 3" . 4"

Dimensional tolerance for Safety-Grip channels:  
Width  $\pm$  1/16" Length +1/2" Height  $\pm$  1/16"  
- 1/4"

## DIAMOND-GRIP CHANNEL

Standard Stock Channels



- Pre-galvanized Steel 12 and 14 gauge
- 5052H32 Aluminum 080" thick to 12" wide (18 3/4" wide .100" thick)
- Type 316 2B Stainless Steel 14 gauge to 11 3/4" wide
- Type 304 2B Stainless steel 16 gauge to 11 3/4" wide on special orders.
- 12 and 14 gauge HRPO Steel available in special order.

WIDTH	STOCK LENGTH	CHANNEL HEIGHT
4 3/8"	144"	1 1/2" . 2" . 2 1/2"
7"	144"	1 1/4 2" . 2 1/2" . 3"
9 1/2"	144"	1 1/4 2" . 2 1/2" . 3"
11 3/4"	144"	1 1/8 2" . 2 1/2" . 3"
18 3/8"	144"	1 1/4 2" . 2 1/2" . 3"
24"	144"	1 1/2" . 2" . 2 1/2" . 3"

Dimensional tolerance for Diamond-Grip channels:  
Width  $\pm$  1/16" Length 8 & 10 ft. - 1/4" 12 ft. - 1/4" Height  $\pm$  1/18"  
+ 1 1/2" + 1/2"

**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
5	5.563	.258	14.62	.258	14.62
6	6.625	.280	18.97	.280	18.97
7	7.625			.301	23.57
8	8.625	.322	28.55	.322	28.55
9	9.625			.342	33.90
10	10.750	.365	40.48	.365	40.48
11	11.750			.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




**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


**WELDED STEEL PIPE**  
**A.S.A. PIPE EXTRA 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 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	7.18	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	547.90		



**HOLLOW STRUCTURAL SECTIONS  
SQUARE**

**SPEC G40.21 350W, ASTM A500**

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	1.04
	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	1.60
	x .100		x 2.54	1.82
	x .125		x 3.18	2.21
	x .188		x 4.78	3.05
2 x 2	x .100	50.8 x 50.8	x 2.54	2.50
	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	6.28
	x .250		x 6.35	7.11
3 x 3	x .125	76.2 x 76.2	x 3.18	4.75
	x .188		x 4.78	6.89
	x .250		x 6.35	8.81
	x .313		x 7.95	10.6
	x .375		x 9.53	12.2
3-1/2 x 3-1/2	x .125	88.9 x 88.9	x 3.18	5.61
	x .188		x 4.78	8.15
	x .250		x 6.35	10.5
	x .313		x 7.95	12.7
	x .375		x 9.53	14.7
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	12.2
	x .313		x 7.95	14.8
	x .375		x 9.53	17.3
	x .500		x 12.70	21.6
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 350W, ASTM A500**

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	15.6
	x .313		x 7.95	19.1
	x .375		x 9.53	22.4
	x .500		x 12.70	28.4
6 x 6	x .188	152.4 x 152.4	x 4.78	14.6
	x .250		x 6.35	19.0
	x .313		x 7.95	23.3
	x .375		x 9.53	27.5
	x .500		x 12.70	35.2
7 x 7	x .188	177.8 x 177.8	x 4.78	17.1
	x .250		x 6.35	22.4
	x .313		x 7.95	27.6
	x .375		x 9.53	32.6
	x .500		x 12.70	42.1
8 x 8	x .188	203.2 x 203.2	x 4.78	19.6
	x .250		x 6.35	25.8
	x .313		x 7.95	31.8
	x .375		x 9.53	37.7
	x .500		x 12.70	48.9
10 x 10	x .250	254.0 x 254.0	x 6.35	32.6
	x .313		x 7.95	40.4
	x .375		x 9.53	47.9
	x .500		x 12.70	62.5
12 x 12	x .250	304.8 x 304.8	x 6.35	39.4
	x .313		x 7.95	40.9
	x .375		x 9.53	58.1
	x .500		x 12.70	76.1
14 x 14	x .313	355.6 x 355.6	x 7.95	57.4
	x .375		x 9.53	68.3
	x .500		x 12.70	89.7
16 x 16	x .313	406.4 x 406.4	x 7.95	65.9
	x .375		x 9.53	78.5
	x .500		x 12.70	103.3

**In house saw cutting available**



## HOLLOW STRUCTURAL SECTIONS RECTANGULAR

SPEC G40.21 350W, ASTM A500

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	x 3.18	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 50.9	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	10.5
	x .375		x 9.53	14.7
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	10.5
	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	12.2
	x .375		x 9.53	17.3



## HOLLOW STRUCTURAL SECTIONS RECTANGULAR SPEC G40.21 350W, ASTM A500

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	12.2
	x .313		x 7.95	14.8
	x .375		x 9.53	17.3
6 x 3	x .188	152.4 x 76.2	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
6 x 4	x .188	152.4 x 101.6	x 4.78	12.0
	x .250		x 6.35	15.6
	x .313		x 7.95	19.1
	x .375		x 9.53	22.4
	x .500		x 12.70	28.4
7 x 5	x .188	177.8 x 127.0	x 4.78	14.5
	x .250		x 6.35	19.0
	x .313		x 7.95	23.3
	x .375		x 9.53	27.5
	x .500		x 12.70	35.2
8 x 2	x .188	203 x 50.8	x 4.78	12.0
	x .250		x 6.35	15.6
	x .375		x 9.53	22.4
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	14.5
	x .250		x 6.35	19.0
	x .313		x 7.95	23.3
	x .375		x 9.53	27.5
	x .500		x 12.70	35.2
8 x 6	x .188	203.2 x 152.4	x 4.78	17.1
	x .250		x 6.35	22.4
	x .313		x 7.95	27.6
	x .375		x 9.53	32.6
	x .500		x 12.70	42.1
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	12.7
	x .250		x 6.35	16.5


**HOLLOW STRUCTURAL SECTIONS  
RECTANGULAR  
SPEC G40.21 350W, ASTM A500**

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	22.4
	x .313		x 7.98	27.6
	x .375		x 9.53	32.6
10 x 6	x .250	254.0 x 152.4	x 6.35	25.8
	x .313		x 7.95	31.8
	x .375		x 9.53	37.7
	x .500		x 12.70	48.9
10 x 8	x .250	254.0 x 203.2	x 6.35	29.2
	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	29.2
	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	32.6
	x .313		x 7.95	40.4
	x .375		x 9.53	47.9
	x .500		x 12.70	62.5
14 x 6	x .250	355.8 x 203.2	x 6.35	32.6
	x .313		x 7.95	40.4
	x .375		x 9.53	47.9
	x .500		x 12.70	62.5
14 x 10	x .313	355.6 x 254.0	x 7.95	48.9
	x .375		x 9.53	58.1
	x .500		x 12.70	76.1
16 x 8	x .313	406.4 x 203.2	x 7.95	48.9
	x .375		x 9.53	58.1
	x .500		x 12.70	76.1
16 x 12	x .313	406.4 x 304.8	x 7.95	57.4
	x .375		x 9.53	68.3
	x .500		x 12.70	89.7



**CONVERSION FACTORS**

Conversion of fractions of an inch  
to decimal equivalent to millimeters

Inches	Decimal	mm	Inches	Decimal	mm
1/64	0.015625	0.3969	33/64	0.515625	13.0969
1/32	0.03125	0.7938	17/32	0.53125	13.4938
3/64	0.046875	1.1906	35/64	0.546875	13.8906
1/16	0.0625	1.5875	9/16	0.5625	14.2875
5/64	0.078125	1.9844	37/64	0.578125	14.6844
3/32	0.09375	2.3812	19/32	0.59375	15.0812
7/64	0.109375	2.7781	39/64	0.609375	15.4781
1/8	0.125	3.175	5/8	0.625	15.875
9/64	0.140625	3.5719	41/64	0.640625	16.2719
5/32	0.15625	3.9687	21/32	0.65625	16.6688
11/64	0.171875	4.3656	43/64	0.671875	17.0656
3/16	0.1875	4.7625	11/16	0.6875	17.4625
13/64	0.203125	5.1594	45/64	0.703125	17.8594
7/32	0.21875	5.5562	23/32	0.71875	18.2562
15/64	0.234375	5.9531	47/64	0.734375	18.6531
1/4	0.25	6.35	3/4	0.75	19.05
17/64	0.265625	6.7469	49/64	0.765625	19.4469
9/32	0.28125	7.1438	25/32	0.78125	19.8438
19/64	0.296875	7.5406	51/64	0.796875	20.2406
5/16	0.3125	7.9375	13/16	0.8125	20.6375
21/64	0.328125	8.3344	53/64	0.828125	21.0344
11/32	0.34375	8.7312	27/32	0.84375	21.4312
23/64	0.359375	9.1281	55/64	0.859375	21.8281
3/8	0.375	9.525	7/8	0.875	22.225
25/64	0.390625	9.9219	57/64	0.890625	22.6219
13/32	0.40625	10.3188	29/32	0.90625	23.0188
27/64	0.421875	10.7156	59/64	0.921875	23.4156
7/16	0.4375	11.1125	15/16	0.9375	23.8125
29/64	0.453125	11.5094	61/64	0.953125	24.2094
15/32	0.46875	11.9062	31/32	0.96875	24.6062
31/64	0.484375	12.3031	63/64	0.984375	25.0031
1/2	0.5	12.7	1	1	25.4





***PRICE STEEL LTD.***

Dependable Product, Dedicated People

