

STRUCTURAL

Angles

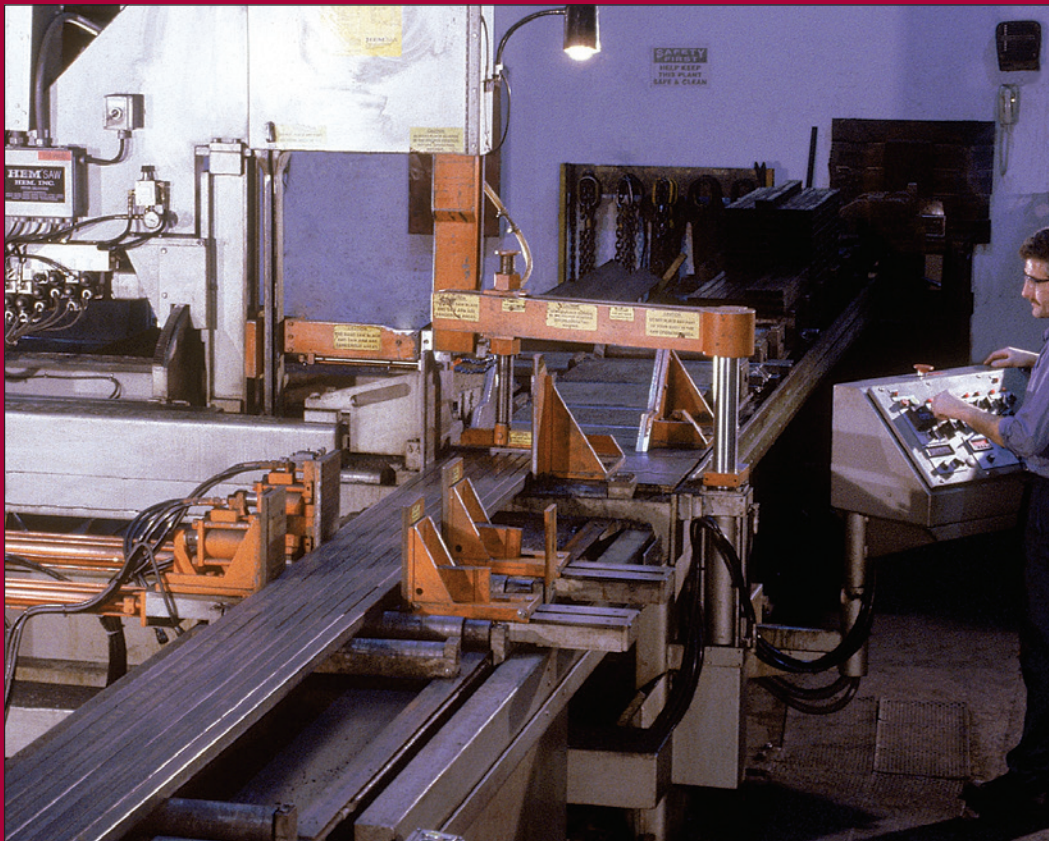
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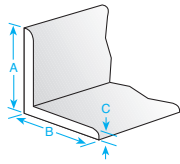
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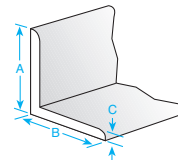
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Angles - Bar Size

Available as ASTM A36, A709
Stock Lengths 20 Ft.



L Angles - Structural

Available as ASTM A36, A709,
572 GR 50, 992 GR 50, CAS 44W,
& CAS 50W
Stock Lengths 20 and 40 Ft.

Sizes

Leg (A)	Leg (B)	Thick. (C)	Weight Per Ft. in Lbs.
1/2	x 1/2	x 1/8	.380
5/8	x 5/8	x 1/8	.480
3/4	x 3/4	x 1/8	.590
7/8	x 7/8	x 1/8	.700
1	x 5/8	x 1/8	.640
1	x 3/4	x 1/8	.700
1	x 1	x 1/8	.800
		3/16	1.160
		1/4	1.490
1 1/8	x 1 1/8	x 1/8	.900
1 1/4	x 1 1/4	x 1/8	1.010
		3/16	1.480
		1/4	1.920
1 3/8	x 7/8	x 1/8	.910
		3/16	1.320
1 1/2	x 1 1/4	x 3/16	1.640
1 1/2	x 1 1/2	x 1/8	1.230
		3/16	1.800
		1/4	2.340
		3/8	3.350
1 3/4	x 1 1/4	x 1/8	1.230
		3/16	1.800
		1/4	2.340
1 3/4	x 1 3/4	x 1/8	1.440
		x 3/16	2.120

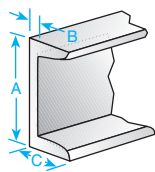
Sizes

Leg (A)	Leg (B)	Thick. (C)	Weight Per Ft. in Lbs.
1 3/4	x 1 3/4	x 1/4	2.770
2	x 1 1/4	x 3/16	1.960
		1/4	2.550
2	x 1 1/2	x 1/8	1.440
		3/16	2.120
		1/4	2.770
2	x 2	x 1/8	1.650
		3/16	2.440
		1/4	3.190
		5/16	3.920
		3/8	4.700
2 1/4	x 1 1/2	x 3/16	2.280
2 1/2	x 2 1/8	x 3/16	2.440
		1/4	3.190
		5/16	3.920
2 1/2	x 2	x 3/16	2.750
		1/4	3.620
		5/16	4.500
		3/8	5.300
2 1/2	x 2 1/2	x 3/16	3.070
		1/4	4.100
		5/16	5.000
		3/8	5.900
		1/2	7.700
L3	x 2	x 3/16	3.070
		1/4	4.100
		5/16	5.000
		3/8	5.900
		1/2	7.700
L3	x 2 1/2	x 3/16	3.350
		1/4	4.500
		5/16	5.600
		3/8	6.600
		1/2	8.500
L3	x 3	x 3/16	3.710
		1/4	4.900
		5/16	6.100
		3/8	7.200
		1/2	9.400
L3 1/2	x 2 1/2	x 1/4	4.900
		5/16	6.100
		3/8	7.200
		1/2	9.400
L3 1/2	x 3	x 1/4	5.400
		5/16	6.600
		3/8	7.900
		1/2	10.200
L3 1/2	x 3 1/2	x 1/4	5.800
		5/16	7.200
		3/8	8.500
		1/2	11.100
L4	x 3	x 1/4	5.800
L4	x 3	x 5/16	7.200
		3/8	8.500
		1/2	11.100
L4	x 3 1/2	x 1/4	6.200
		5/16	7.700
		3/8	9.100
		1/2	11.900
L4	x 4	x 1/4	6.600
		5/16	8.200
		3/8	9.800
		1/2	12.800
		5/8	15.700
		3/4	18.500
L5	x 3	x 1/4	6.600

Sizes

Leg (A)	Leg (B)	Thick. (C)	Weight Per Ft. in Lbs.
L5	x 3	x 5/16	8.200
		3/8	9.800
		1/2	12.800
L5	x 3 1/2	x 1/4	7.000
		5/16	8.700
		3/8	10.400
		1/2	13.600
		5/8	16.800
		3/4	19.800
L5	x 5	x 5/16	10.300
		3/8	12.300
		1/2	16.200
		5/8	20.000
		3/4	23.600
L6	x 3 1/2	x 1/4	7.900
		5/16	9.800
		3/8	11.700
		1/2	15.300
L6	x 4	x 5/16	10.300
		3/8	12.300
		1/2	16.200
		5/8	20.000
		3/4	23.600
L6	x 6	x 5/16	12.400
		3/8	14.900
		1/2	19.600
		5/8	24.200
		3/4	28.700
L6	x 6	x 1	37.400
L7	x 4	x 3/8	13.600
		1/2	17.900
		3/4	26.200
L8	x 4	x 1/2	19.600
		3/4	28.700
L8	x 6	x 1/2	23.000
		3/4	33.800
		1	44.200
L8	x 8	x 1/2	26.400
		5/8	32.700
		3/4	38.900
		1	51.000

All items can be galvanized.

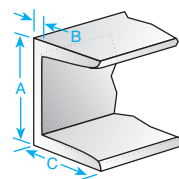


Channels - Bar Size

Available as ASTM A-36.
Stock Lengths: 20 Ft.

Sizes

Depth in Inches (A)		Web Thick. in Inches (B)		Flange Width in Inches (C)	Weight per Ft. in Lbs.
3/4	x	1/8	x	3/8	.560
1	x	1/8	x	3/8	.680
1	x	1/8	x	1/2	.840
1 1/8	x	3/16	x	9/16	1.160
1 1/4	x	1/8	x	1/2	1.010
1 1/2	x	1/8	x	1/2	1.120
1 1/2	x	3/16	x	9/16	1.440
1 1/2	x	1/8	x	3/4	1.170
2	x	1/8	x	1/2	1.430
2	x	3/16	x	9/16	1.860
2	x	1/4	x	5/8	2.280
2	x	1/8	x	1	1.780
2	x	3/16	x	1	2.570
2 1/2	x	5/8	x	3/16	2.270

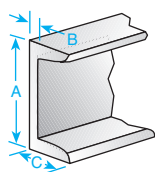


MC Channels - Ship & Car

Available in ASTM A-36, A709, 572 Gr. 50, 992 Gr. 50, CAS 44W, CAS 50W.
Stock Lengths: 20 and 40 Ft

Sizes

Depth in Inches (A)	Web Thick. in Inches (B)	Flange Width in Inches (C)	Weight per Ft. in Lbs. (A)	Weight per Ft. in Lbs. (B)	Weight per Ft. in Lbs. (C)
MC 3 x	7.1	.312	1.938		
MC 4 x	13.8	.500	2.500		
MC 6 x	12.0	.310	2.497		
	15.1	.316	2.941		
	15.3	.340	3.500		
	16.3	.375	3.000		
	18.0	.379	3.504		
MC 7 x	19.1	.352	3.452		
	22.7	.503	3.603		
MC 8 x	18.7	.353	2.978		
	20.0	.400	3.025		
	21.4	.375	3.450		
	22.8	.427	3.502		
MC 9 x	23.9	.400	3.450		
	25.4	.450	3.500		
MC 10 x	22.0	.312	3.315		
	25.0	.380	3.405		
	28.5	.425	3.950		
	33.6	.575	4.100		
	41.1	.796	4.321		
MC 12 x	31.0	.370	3.670		
	35.0	.467	3.767		
	40.0	.590	3.890		
	45.0	.712	4.012		
	50.0	.835	4.135		
MC 13 x	31.8	.375	4.000		
	50.0	.787	4.412		
MC 18 x	42.7	.450	3.950		
	45.8	.500	4.000		
	51.9	.600	4.100		
	58.0	.700	4.200		

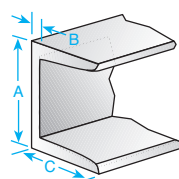


C Channels - Standard

Available as ASTM A-36, A709, 572 Gr.50, 992 Gr.50, CAS 44W, CAS 50W.
Stock Lengths: 20 and 40 Ft

Sizes

Depth in Inches (A)	Web Thick. in Inches (B)	Flange Width in Inches (C)	Weight per Ft. in Lbs. (A)	Weight per Ft. in Lbs. (B)	Weight per Ft. in Lbs. (C)
C3 x	4.1	.170	1.410		
	5.0	.258	1.498		
	6.0	.356	1.596		
C4 x	5.4	.184	1.584		
	6.25	.247	1.647		
	7.25	.321	1.721		
C5 x	6.7	.190	1.750		
	9.0	.325	1.885		
C6 x	8.2	.200	1.920		
	10.5	.314	2.034		
	13.0	.437	2.157		
C7 x	9.8	.210	2.090		
	12.25	.314	2.194		
	14.75	.419	2.299		
C8 x	11.5	.220	2.260		
C8 x	13.75	.303	2.343		
	18.75	.487	2.527		
C9 x	13.4	.233	2.433		
	15.0	.285	2.485		
	20.0	.448	2.648		
C10 x	15.3	.240	2.600		
	20.0	.379	2.739		
	25.0	.526	2.886		
	30.0	.673	3.033		
C12 x	20.7	.282	2.942		
	25.0	.387	3.047		
	30.0	.510	3.170		
C15 x	33.9	.400	3.400		
	40.0	.520	3.520		
	50.0	.716	3.716		

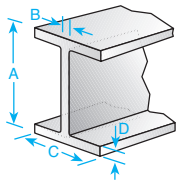


MC Channels - Jr. Channels

Available in ASTM A-36, A709, 572 Gr. 50, 992 Gr. 50, CAS 44W, CAS 50W.
Stock Lengths: 20 and 40 Ft

Sizes

Depth in Inches (A)	Web Thick. in Inches (B)	Flange Width in Inches (C)	
MC 8 x	8.5	.180	1.875
MC 10 x	6.5	.152	1.127
	8.4	.170	1.500
MC 12 x	10.6	.190	1.500



W Beams - Wide Flange

Available in ASTM A36, A709,
572 Gr. 50, 992 Gr. 50, CAS 44W
CAS 50W.
Stock Lengths: 20 and 40 Ft.

Sizes

Nom. Depth In Inches Wt./Ft./Lbs.	Depth In Inches (A)	Web Thick. In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch	
W4 x	13.0	4.16	.280	4.060	.345	3.83
W5 x	16.0	5.01	.240	5.000	.360	4.71
	19.0	5.15	.270	5.030	.430	5.56
W6 x	9.0	5.90	.170	3.940	.215	2.68
	12.0	6.03	.230	4.000	.280	3.55
	15.0	5.99	.230	5.990	.260	4.43
	16.0	6.28	.260	4.030	.405	4.74
	20.0	6.20	.260	6.020	.365	5.87
	25.0	6.38	.320	6.080	.455	7.34
W8 x	10.0	7.89	.170	3.940	.205	2.96
	13.0	7.99	.230	4.000	.255	3.84
	15.0	8.11	.245	4.015	.315	4.44
	18.0	8.14	.230	5.250	.330	5.26
	21.0	8.28	.250	5.270	.400	6.16
	24.0	7.93	.245	6.495	.400	7.08
	28.0	8.06	.285	6.535	.465	8.25
	31.0	8.00	.285	7.995	.435	9.13
	35.0	8.12	.310	8.020	.495	10.30
	40.0	8.25	.360	8.070	.560	11.70
	48.0	8.50	.400	8.110	.685	14.10
	58.0	8.75	.510	8.220	.810	17.10
	67.0	9.00	.570	8.280	.935	19.70
W10 x	12.0	9.87	.190	3.960	.210	3.54
	15.0	9.99	.230	4.000	.270	4.41
	17.0	10.11	.240	4.010	.330	4.99
	19.0	10.24	.250	4.020	.395	5.62
	22.0	10.17	.240	5.750	.360	6.49
	26.0	10.33	.260	5.770	.440	7.61
	30.0	10.47	.300	5.810	.510	8.84
	33.0	9.73	.290	7.960	.435	9.71
	39.0	9.92	.315	7.985	.530	11.50
	45.0	10.10	.350	8.020	.620	13.30

Continued

Sizes

Nom. Depth In Inches Wt./Ft./Lbs.	Depth In Inches (A)	Web Thick. In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch	
W10 x	49.0	9.98	.340	10.000	.560	14.40
	54.0	10.09	.370	10.030	.615	15.80
	60.0	10.22	.420	10.080	.680	17.60
	68.0	10.40	.470	10.130	.770	20.00
	77.0	10.40	.530	10.190	.870	22.80
	88.0	10.84	.605	10.265	.990	25.60
	100.0	11.10	.680	10.340	1.120	29.40
	112.0	11.36	.755	10.415	1.250	32.90
W12 x	14.0	11.91	.200	3.970	.225	4.16
	16.0	11.99	.220	3.990	.265	4.71
	19.0	12.16	.235	4.005	.350	5.57
	22.0	12.31	.260	4.030	.425	6.48
	26.0	12.22	.230	6.490	.380	7.65
	30.0	12.34	.260	6.520	.440	8.79
	35.0	12.50	.300	6.560	.520	10.30
	40.0	11.94	.295	8.005	.515	11.80
	45.0	12.06	.335	8.045	.575	13.20
	50.0	12.19	.370	8.080	.640	14.70
	53.0	12.06	.345	9.995	.575	15.60
	58.0	12.19	.360	10.010	.640	17.00
	65.0	12.12	.390	12.000	.605	19.10
	72.0	12.25	.430	12.040	.670	21.10
	79.0	12.38	.470	12.080	.735	23.20
	87.0	12.53	.515	12.125	.810	25.60
	96.0	12.71	.550	12.160	.900	28.20
	106.0	12.89	.610	12.220	.990	31.20
W14 x	22.0	13.74	.230	5.000	.335	6.49
	26.0	13.91	.255	5.025	.420	7.69
	30.0	13.84	.270	6.730	.385	8.85
	34.0	13.98	.285	6.745	.455	10.00
	38.0	14.10	.310	6.770	.515	11.20
	43.0	13.66	.305	7.995	.530	12.60

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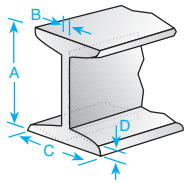
Sizes

Nom. Depth In Inches Wt./Ft./Lbs.	Depth In Inches (A)	Web Thick. In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch	
W14 x	48.0	13.79	.340	8.030	.595	14.10
	53.0	13.92	.370	8.060	.660	15.60
	61.0	13.89	.375	9.995	.645	17.90
	74.0	14.17	.450	10.070	.785	21.80
	82.0	14.31	.510	10.130	.855	24.10
	90.0	14.02	.440	14.520	.710	26.50
	99.0	14.16	.485	14.565	.780	29.10
W16 x	26.0	15.69	.250	5.500	.345	7.68
	31.0	15.88	.275	5.525	.440	9.12
	36.0	15.86	.295	6.985	.430	10.60
	40.0	16.01	.305	6.995	.505	11.80
	45.0	16.13	.345	7.035	.565	13.30
	50.0	16.26	.380	7.070	.630	14.70
	57.0	16.43	.430	7.120	.715	16.80
	67.0	16.33	.395	10.235	.665	19.70
	77.0	16.52	.455	10.295	.760	22.60
	89.0	16.75	.525	10.365	.875	26.20
W18 x	35.0	17.70	.300	6.000	.425	10.30
	40.0	17.90	.315	6.015	.525	11.80
	46.0	18.06	.360	6.060	.605	13.50
	50.0	17.99	.355	7.495	.570	14.70
	55.0	18.11	.390	7.530	.630	16.20
	60.0	18.24	.415	7.555	.695	17.60
	65.0	18.35	.450	7.590	.750	19.10
	71.0	18.47	.495	7.635	.810	20.80
	76.0	18.21	.430	11.04	.680	22.30
	86.0	18.39	.480	11.090	.770	25.30
	97.0	18.59	.535	11.145	.870	28.50
W21 x	44.0	20.66	.350	6.500	.450	13.00
	50.0	20.83	.380	6.530	.535	14.70
	57.0	21.06	.405	6.555	.650	16.70
	62.0	20.99	.400	8.240	.615	18.30

Continued

Sizes

Nom. Depth In Inches Wt./Ft./Lbs.	Depth In Inches (A)	Web Thick. In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch	
W21 x	68.0	21.13	.430	8.270	.685	20.00
	73.0	21.24	.455	8.295	.740	21.50
	83.0	21.43	.515	8.355	.835	24.30
	101.0	21.36	.500	12.290	.800	29.80
	111.0	21.51	.550	12.340	.875	32.70
W24 x	55.0	23.57	.395	7.005	.505	16.20
	62.0	23.74	.430	7.040	.590	18.20
	68.0	23.73	.415	8.965	.585	20.10
	76.0	23.92	.440	8.990	.680	22.40
	84.0	24.10	.470	9.020	.770	24.70
	94.0	24.31	.515	9.065	.875	27.70
	104.0	24.06	.500	12.750	.750	30.60
W27 x	84.0	26.71	.460	9.960	.640	24.80
	94.0	26.92	.490	9.990	.745	27.70
W30 x	99.0	29.65	.520	10.450	.670	29.10

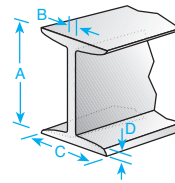


S Beams - Standard

Available in ASTM A36, A709, 572 Gr. 50, 992 Gr. 50 CAS 44W, CAS 50W.
Stock Lengths: 20 and 40 Ft.

Sizes

	Depth In Inches Wt./Ft./Lbs. (A)	Web Thick In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch
S3	x 5.7	.170	2.330	.260	1.67
	7.5	.349	2.509	.260	2.21
S4	x 7.7	.193	2.663	.293	2.26
	9.5	.326	2.796	.293	2.79
S5	x 10.0	.214	3.004	.326	2.94
	14.75	.494	3.284	.326	4.34
S6	x 12.5	.232	3.332	.359	3.67
	17.25	.465	3.565	.359	5.07
S7	x 15.3	.252	3.662	.392	4.50
	20.0	.450	3.860	.392	5.88
S8	x 18.4	.271	4.001	.425	5.41
	23.0	.441	4.171	.425	6.77
S10	x 25.4	.311	4.661	.491	7.46
	35.0	.594	4.944	.491	10.30
S12	x 31.8	.350	5.000	.544	9.35
	35.0	.428	5.078	.544	10.30
	40.8	.472	5.252	.659	12.00
	50.0	.687	5.477	.659	14.70
S15	x 42.9	.411	5.501	.622	12.60
	50.0	.550	5.640	.622	14.70
S18	x 54.7	.461	6.001	.691	16.10
	70.0	.711	6.251	.691	20.60
S20	x 66.0	.505	6.255	.795	19.40
	86.0	.660	7.060	.920	25.30
S24	x 80.0	.500	7.000	.870	23.50
	100.0	.745	7.245	.870	29.30
	106.0	.620	7.870	1.090	31.20



M Beams - Jr., H or Light Beams

Available in ASTM A36.
Stock Lengths: 20 and 40 Ft.

Sizes

Nom. Depth In Inches Wt./Ft./Lbs. (A)	Also Called	Web Thick. In Inches (B)	Flange Width (C)	Flange Thick. (D)	Area Sq. Inch
M5 x 18.9	H	.316	5.003	.416	5.55
M6 x 4.4	JR. BEAM	.114	1.844	.171	1.29
M8 x 6.5	JR. BEAM	.135	2.281	.189	1.92
M10 x 9.0	JR. BEAM	.157	2.690	.206	2.65
M12 x 11.8	JR. BEAM	1.77	3.065	.225	3.47

