

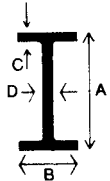


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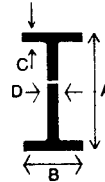


S-SHAPES (STRUCTURAL I-BEAMS) ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
Stock Lengths to 12", Incl., 20', 30', 40' and
55'/60' Random
Stock Lengths over 12", 40' 55'/60' Random

Base A	Size in Inches		Estimated Wt. Lbs. Per Foot	Base A	Size in Inches		Estimated Wt. Lbs. Per Foot
	Flange B	Web C			Flange B	Web C	
3	2.330	.170	5.7	12	5.000	.350	31.8
	2.509	.349	7.5		5.078	.428	35.0
4	2.663	.193	7.7	15	5.252	.472	40.8
	2.796	.326	9.5		5.477	.687	50.0
5	3.004	.214	10.0	18	5.640	.550	50.0
	3.284	.494	14.75		6.001	.461	54.7
6	3.332	.232	12.5	20	6.251	.711	70.0
	3.565	.465	17.25		6.250	.500	65.4
7	3.662	.252	15.3	24	6.391	.641	75.0
	3.860	.450	20.0		7.053	.653	85.0
8	4.001	.271	18.4	24	7.200	.800	95.0
	4.171	.441	23.0		7.001	.501	79.9
10	4.661	.311	25.4	24	7.124	.624	90.0
	4.944	.594	35.0		7.247	.747	100.0
					7.875	.625	105.9
					8.048	.798	120.0



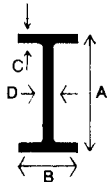
W-SHAPES (STRUCTURAL WIDE FLANGE) ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
Stock Lengths to 12", Incl., 20', 30', 40' and
55'/60' Random
Stock Lengths over 12", 40' 55'/60' Random
Continued from preceding page.

Designation	Depth of Section	Flange		Web Thickness	
		Width	Thickness		
W30X 211	30.94	15.105	1.315	0.775	
	X 191	30.68	15.040	1.185	0.710
	X 173	30.44	14.985	1.065	0.655
W30X 132	30.31	10.545	1.000	0.615	
	X 124	30.17	10.515	0.930	0.585
	X 116	30.01	10.495	0.850	0.565
	X 108	29.83	10.475	0.760	0.545
X 99	29.65	10.450	0.670	0.520	
W27X 178	27.81	14.085	1.190	0.725	
	X 161	27.59	14.020	1.080	0.660
	X 146	27.38	13.965	0.975	0.605
W27X 114	27.29	10.070	0.930	0.570	
	X 102	27.09	10.015	0.830	0.515
	X 94	26.92	9.990	0.745	0.490
	X 84	26.71	9.960	0.640	0.460
W24X 162	25.00	12.955	1.220	0.705	
	X 146	24.74	12.900	1.090	0.650
	X 131	24.48	12.855	0.960	0.605
	X 117	24.26	12.800	0.850	0.550
	X 104	24.06	12.750	0.750	0.500
W24X 94	24.31	9.065	0.875	0.515	
	X 84	24.10	9.020	0.770	0.470
	X 76	23.92	8.990	0.680	0.440
	X 68	23.73	8.965	0.585	0.415
W24X 62	23.74	7.040	0.590	0.430	
	X 55	23.57	7.005	0.505	0.395
W21X 147	22.06	12.510	1.150	0.720	
	X 132	21.83	12.440	1.035	0.650
	X 122	21.68	12.390	0.960	0.600
	X 111	21.51	12.340	0.875	0.550
	X 101	21.36	12.290	0.800	0.500
W21X 93	21.62	8.420	0.930	0.580	
	X 83	21.43	8.355	0.835	0.515
	X 73	21.24	8.295	0.740	0.455
	X 68	21.13	8.270	0.685	0.430
X 62	20.99	8.240	0.615	0.400	
W21X 57	21.06	6.555	0.650	0.405	
	X 50	20.83	6.530	0.535	0.380
	X 44	20.66	6.500	0.450	0.350
W18X 119	18.97	11.265	1.060	0.655	
	X 106	18.73	11.200	0.940	0.590
	X 97	18.59	11.145	0.870	0.535
	X 86	18.39	11.090	0.770	0.480
	X 76	18.21	11.035	0.680	0.425

W-SHAPES (STRUCTURAL WIDE FLANGE) ASTM A-36



According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
Stock Lengths to 12", Incl., 20', 30', 40' and
55'/60' Random
Stock Lengths over 12", 40' 55'/60' Random

Designation	Depth of Section	Flange		Web Thickness	
		Width	Thickness		
W36X 300	36.74	16.655	1.680	0.945	
	X 280	36.52	16.595	1.570	0.885
	X 260	36.26	16.550	1.440	0.840
	X 245	36.08	16.510	1.350	0.800
	X 230	35.90	16.470	1.260	0.760
W36X 210	36.69	12.180	1.360	0.830	
	X 194	36.49	12.115	1.260	0.765
	X 182	36.33	12.075	1.180	0.725
	X 170	36.17	12.030	1.100	0.680
	X 160	36.01	12.000	1.020	0.650
	X 150	35.85	11.975	0.940	0.625
	X 135	35.55	11.950	0.790	0.600
W33X 241	34.18	15.860	1.400	0.830	
	X 221	33.93	15.805	1.275	0.775
	X 201	33.68	15.745	1.150	0.715
W33X 152	33.49	11.565	1.055	0.635	
	X 141	33.30	11.535	0.960	0.605
	X 130	33.09	11.510	0.855	0.580
	X 118	32.86	11.480	0.740	0.550

Most sections also available in high strength, low alloy chemistries.

Most sections also available in high strength, low alloy chemistries.

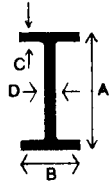
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W-SHAPES (STRUCTURAL WIDE FLANGE)

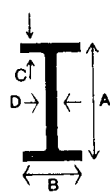
ASTM A-36



According to the American Institute of Steel Construction
 Tensile Strength 60,000 to 80,000 P.S.I.
 Stock Lengths to 12", Incl., 20', 30', 40' and 55'/60' Random
 Stock Lengths over 12", 40' 55'/60' Random
 Continued from preceding page.

W-SHAPES (STRUCTURAL WIDE FLANGE)

ASTM A-36



According to the American Institute of Steel Construction
 Tensile Strength 60,000 to 80,000 P.S.I.
 Stock Lengths to 12", Incl., 20', 30', 40' and 55'/60' Random
 Stock Lengths over 12", 40' 55'/60' Random
 Continued from preceding page.

Designation	Depth of Section	Flange		Web Thickness
		Width	Thickness	
W18X 71	18.47	7.635	0.810	0.495
X 65	18.35	7.590	0.750	0.450
X 60	18.24	7.555	0.695	0.415
X 55	18.11	7.530	0.630	0.390
X 50	17.99	7.495	0.570	0.355
W18X 46	18.06	6.060	0.605	0.360
X 40	17.90	6.015	0.525	0.315
X 35	17.70	6.000	0.425	0.300
W16X 100	16.97	10.425	0.985	0.585
X 89	16.75	10.365	0.875	0.525
X 77	16.52	10.295	0.760	0.455
X 67	16.33	10.235	0.665	0.395
W16X 57	16.43	7.120	0.715	0.430
X 50	16.26	7.070	0.630	0.380
X 45	16.13	7.035	0.565	0.345
X 40	16.01	6.995	0.505	0.305
X 36	15.86	6.985	0.430	0.295
W16X 31	15.88	5.525	0.440	0.275
X 26	15.69	5.500	0.345	0.250
W14X 730	22.42	17.890	4.910	3.070
X 665	21.64	17.650	4.520	2.830
X 605	20.92	17.415	4.160	2.595
X 550	20.24	17.200	3.820	2.380
X 500	19.60	17.010	3.500	2.190
X 455	19.02	16.835	3.210	2.015
X 426	18.67	16.695	3.035	1.875
X 398	18.29	16.590	2.845	1.770
X 370	17.92	16.475	2.660	1.655
X 342	17.54	16.360	2.470	1.540
X 311	17.12	16.230	2.260	1.410
X 283	16.74	16.110	2.070	1.290
X 257	16.38	15.995	1.890	1.175
X 233	16.04	15.890	1.720	1.070
X 211	15.72	15.800	1.560	0.980
X 193	15.48	15.710	1.440	0.890
X 176	15.22	15.650	1.310	0.830
X 159	14.98	15.565	1.190	0.745
X 145	14.78	15.500	1.090	0.680
W14X 132	14.66	14.725	1.030	0.645
X 120	14.48	14.670	0.940	0.590
X 109	14.32	14.605	0.860	0.525
X 99	14.16	14.565	0.780	0.485
X 90	14.02	14.520	0.710	0.440
W14X 82	14.31	10.130	0.855	0.510
X 74	14.17	10.070	0.785	0.450
X 68	14.04	10.035	0.720	0.415
X 61	13.89	9.995	0.645	0.375
W14X 53	13.92	8.060	0.660	0.370
X 48	13.79	8.030	0.595	0.340
X 43	13.66	7.995	0.530	0.305

Designation	Depth of Section	Flange		Web Thickness
		Width	Thickness	
W14X 38	14.10	6.770	0.515	0.310
X 34	13.98	6.745	0.455	0.285
X 30	13.84	6.730	0.385	0.270
W14X 26	13.91	5.025	0.420	0.255
X 22	13.74	5.000	0.335	0.230
W12X 336	16.82	13.385	2.955	1.775
X 305	16.32	13.235	2.705	1.625
X 279	15.85	13.140	2.470	1.530
X 252	15.41	13.005	2.250	1.395
X 230	15.05	12.895	2.070	1.285
X 210	14.71	12.790	1.900	1.180
X 190	14.38	12.670	1.735	1.060
X 170	14.03	12.570	1.560	0.960
X 152	13.71	12.480	1.400	0.870
X 136	13.41	12.400	1.250	0.790
X 120	13.12	12.320	1.105	0.710
X 106	12.89	12.220	0.990	0.610
X 96	12.71	12.160	0.900	0.550
X 87	12.53	12.125	0.810	0.515
X 79	12.38	12.080	0.735	0.470
X 72	12.25	12.040	0.670	0.430
X 65	12.12	12.000	0.605	0.390
W12X 58	12.19	10.010	0.640	0.360
X 53	12.06	9.995	0.575	0.345
W12X 50	12.19	8.080	0.640	0.370
X 45	12.06	8.045	0.575	0.335
X 40	11.94	8.005	0.515	0.295
W12X 35	12.50	6.560	0.520	0.300
X 30	12.34	6.520	0.440	0.260
X 26	12.22	6.490	0.380	0.230
W12X 22	12.31	4.030	0.425	0.260
X 19	12.16	4.005	0.350	0.235
X 16	11.99	3.990	0.265	0.220
X 14	11.91	3.970	0.225	0.200
W10X 112	11.36	10.415	1.250	0.755
X 100	11.10	10.340	1.120	0.680
X 88	10.84	10.265	0.990	0.605
X 77	10.60	10.190	0.870	0.530
X 68	10.40	10.130	0.770	0.470
X 60	10.22	10.080	0.680	0.420
X 54	10.09	10.030	0.615	0.370
X 49	9.98	10.000	0.560	0.340
W10X 45	10.10	8.020	0.620	0.350
X 39	9.92	7.985	0.530	0.315
X 33	9.73	7.960	0.435	0.290
W10X 30	10.47	5.810	0.510	0.300
X 26	10.33	5.770	0.440	0.260
X 22	10.17	5.750	0.360	0.240

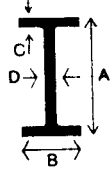
Most sections also available in high strength, low alloy chemistries.

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W-SHAPES (STRUCTURAL WIDE FLANGE)



ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
 Stock Lengths to 12', Incl., 20', 30', 40' and 55'/60' Random
 Stock Lengths over 12', 40' 55'/60' Random

Designation	Depth of Section	Flange		Web Thickness
		Width	Thickness	
W10X 19	10.24	4.020	0.395	0.250
X 17	10.11	4.010	0.330	0.240
X 15	9.99	4.000	0.270	0.230
X 12	9.87	3.960	0.210	0.190
W8 X 67	9.00	8.280	0.935	0.570
X 58	8.75	8.220	0.810	0.510
X 48	8.50	8.110	0.685	0.400
X 40	8.25	8.070	0.560	0.360
X 35	8.12	8.020	0.495	0.310
X 31	8.00	7.995	0.435	0.285
W8 X 28	8.06	6.535	0.465	0.285
X 24	7.93	6.495	0.400	0.245
W8 X 21	8.28	5.270	0.400	0.250
X 18	8.14	5.250	0.330	0.230
W8 X 15	8.11	4.015	0.315	0.245
X 13	7.99	4.000	0.255	0.230
X 10	7.89	3.940	0.205	0.170
W6 X 25	6.38	6.080	0.455	0.320
X 20	6.20	6.020	0.365	0.260
X 15	5.99	5.990	0.260	0.230
W6 X 16	6.28	4.030	0.405	0.260
X 12	6.03	4.000	0.280	0.230
X 9	5.90	3.940	0.215	0.170

C-SHAPES (STRUCTURAL CHANNELS)

ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
 Stock Lengths to 12', Incl., 20', 30', 40' and 55'/60' Random
 Stock Lengths over 12', 55'/60' Random

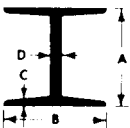
Depth of Channel	Size in Inches		Estimated Wt. Lbs. Per Foot	Depth of Channel	Size in Inches		Estimated Wt. Lbs. Per Foot
	Thickness of Web	Width of Flange			Thickness of Web	Width of Flange	
3	.170	1.410	4.1	9	.233	2.433	13.4
	.258	1.498	5.0		.285	2.485	15.0
	.356	1.596	6.0		.448	2.648	20.0
4	.184	1.584	5.4	10	.240	2.600	15.3
	.321	1.721	7.25		.379	2.739	20.0
	.190	1.750	6.7		.526	2.886	25.0
5	.325	1.885	9.0	12	.673	3.033	30.0
	.200	1.920	8.2		.282	2.942	20.7
6	.314	2.034	10.5	15	.387	3.047	25.0
	.437	2.157	13.0		.510	3.170	30.0
	.210	2.090	9.8		.400	3.400	33.9
7	.314	2.194	12.25	15	.520	3.520	40.0
	.419	2.299	14.75		.716	3.716	50.0
	.220	2.260	11.5				
8	.303	2.343	13.75				
	.487	2.527	18.75				

Most sections also available in high strength, low alloy chemistries.

M-SHAPES (STRUCTURAL H-SECTIONS, JUNIOR BEAMS AND LIGHT BEAMS)

ASTM A-36

Stock Lengths over 12', 40' 55'/60' Random



Section and Sizes	Estimated Wt. Lbs. Per Foot	Depth of Section A	Flange in inches		Thickness of Web D
			Width B	Thickness C	
4	13.0	4.000	3.940	.371	.254
	13.8	4.000	4.000	.371	.313
	16.3	4.200	3.938	.472	.312
5	18.9	5.000	5.003	.416	.316
	6	4.4	6.000	1.844	.171
6	20.0	6.000	5.938	.379	.250
	22.5	6.000	6.060	.379	.372
	25.0	6.000	5.938	.481	.313
	33.8	6.250	6.114	.605	.488
	7	5.5	7.000	2.080	.180
8	6.5	8.000	2.281	.189	.135
	18.5	8.000	5.250	.353	.230
	22.5	8.000	5.395	.353	.375
	32.6	8.000	7.940	.459	.315
	34.3	8.000	8.003	.459	.378
	37.7	8.125	8.002	.521	.377
	10	9.0	10.000	2.690	.206
12	22.9	9.875	5.752	.389	.242
	29.1	9.875	5.937	.389	.427
	11.8	12.000	3.065	.225	.177
14	17.2	14.000	4.000	.272	.210

Most sections also available in high strength, low alloy chemistries.

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MC-SHAPES (CAR AND SHIP CHANNELS, JUNIOR CHANNELS AND OTHER MISCELLANEOUS SHAPES) ASTM A-36

According to the American Institute of Steel Construction
Tensile Strength 60,000 to 80,000 P.S.I.
Stock Lengths to 12", Incl., 20', 30', 40' and 55'/60' Random
Stock Length over 12", 55'/60' Random

Depth of Channel	Size in Inches		Estimated Wt. Lbs. Per Foot	Weight	
	Thickness of Web	Width of Flange		20'	40'
3x7.1	.312	1.938	7.1	142	284
3x9.0	.497	2.122	9.0	180	360
6x12.0	.310	2.497	12.0	240	480
6x15.1	.316	2.941	15.1	302	604
6x15.3	.340	3.500	15.3	306	612
6x16.3	.375	3.000	16.3	326	652
6x18.0	.379	3.504	18.0	360	720
7x17.6	.375	3.000	17.6	352	704
7x19.1	.352	3.452	19.1	382	764
7x22.7	.503	3.603	22.7	454	908
8x 8.5	.179	1.874	8.5	170	340
8x18.7	.353	2.978	18.7	374	748
8x20.0	.400	3.025	20.0	400	800
8x21.4	.375	3.450	21.4	428	856
8x22.8	.427	3.502	22.8	456	912
9x23.9	.400	3.450	23.9	478	956
9x25.4	.450	3.500	25.4	508	1016
10x6.5	.152	1.127	6.5	130	260
10x8.4	.170	1.500	8.4	168	336
10x21.9	.325	3.450	21.9	438	876
10x24.9	.377	3.402	24.9	498	996
10x25.3	.425	3.550	25.3	506	1012
10x28.3	.477	3.502	28.3	566	1132
10x28.5	.425	3.950	28.5	570	1140
10x33.6	.575	4.100	33.6	672	1344
10x41.1	.796	4.321	41.1	822	1644
12x10.6	.190	1.500	10.6	212	424
12x30.9	.450	3.450	30.9	618	1236
12x32.9	.500	3.500	32.9	658	1316
12x35.0	.467	3.767	35.0	700	1400
12x37.0	.600	3.600	37.0	740	1480
12x40.0	.590	3.890	40.0	800	1600
12x45.0	.712	4.012	45.0	900	1800
12x50.0	.835	4.135	50.0	1000	2000
13x31.8	.375	4.000	31.8	636	1272
13x35.0	.447	4.072	35.0	700	1400
13x40.0	.560	4.185	40.0	800	1600
13x50.0	.787	4.412	50.0	1000	2000
18x42.7	.450	3.950	42.7	854	1708
18x45.8	.500	4.000	45.8	916	1832
18x51.9	.600	4.100	51.9	1038	2076
18x58.0	.700	4.200	58.0	1160	2320

Most sections also available in high strength, low alloy chemistries.



BAR CHANNELS A-36 Merchant Quality Stock Length, 20'

Size in Inches	Est. Weight, Lbs.		Size in Inches	Est. Weight, Lbs.	
	Per Foot	20 Ft. Length		Per Foot	20 Ft. Length
3/4 x 3/16 x 1/8	.50	10.00	9/16 x 3/16	1.44	28.80
3/8 x 1/8	.56	11.20	3/4 x 1/8	1.17	23.40
7/8 x 3/8 x 1/8	.61	12.20	1 1/2 x 3/16	2.65	53.00
7/16 x 1/8	.69	13.80	1 3/4 x 1/2 x 3/16	1.55	31.00
1 x 3/8 x 1/8	.68	13.60	2 x 1/2 x 1/8	1.34	26.80
1/2 x 1/8	.84	16.80	3/16 x 3/16	1.86	37.20
1 1/8 x 9/16 x 3/16	1.16	23.20	3/8 x 1/4	2.28	45.60
1 1/4 x 1/2 x 1/8	1.01	20.20	1 x 1/8	1.78	35.60
			1 x 3/16	2.59	51.80
1 1/2 x 1/2 x 1/8	1.12	22.40	2 1/2 x 5/8 x 3/16	2.27	45.40

BAR ANGLES A-36 Merchant Quality Stock Lengths, 20' and 40'

Size in Inches	Est. Weight, Lbs.		Size in Inches	Est. Weight, Lbs.	
	Per Foot	20 Ft. Length		Per Foot	20 Ft. Length
1/2 x 1/2 x 1/8	.38	7.60	2 x 1 1/4 x 3/16	1.96	39.20
5/8 x 5/8 x 1/8	.48	9.60	1/4	2.55	51.00
3/4 x 3/4 x 1/8	.59	11.80	2 x 1 1/2 x 1/8	1.44	28.80
3/16	.84	16.80	3/16	2.12	42.40
			1/4	2.77	55.40
7/8 x 7/8 x 1/8	.70	14.00	2 x 2 x 1/8	1.65	33.00
1 x 3/8 x 1/8	.64	12.80	3/16	2.44	48.80
3/4 x 1/8	.70	14.00	1/4	3.19	63.80
			3/16	3.92	78.40
1 x 1 x 1/8	.80	16.00	3/8	4.70	94.00
3/16	1.16	23.20	2 1/4 x 1 1/2 x 3/16	2.28	45.60
1/4	1.49	29.80	1/4	2.98	59.60
1 1/4 x 1 1/4 x 1/8	1.01	20.20	2 1/2 x 1 1/2 x 3/16	2.44	48.80
3/16	1.48	29.60	1/4	3.19	63.80
1/4	1.92	38.40	3/16	3.92	78.40
1 3/8 x 7/8 x 1/8	.91	18.20	2 1/2 x 2 x 3/16	2.75	55.00
3/16	1.32	26.40	1/4	3.62	72.40
			3/16	4.50	90.00
1 1/2 x 1 1/4 x 3/16	1.64	32.80	3/8	5.30	106.0
1 1/2 x 1 1/2 x 1/8	1.23	24.60	2 1/2 x 2 1/2 x 3/16	3.07	61.40
3/16	1.80	36.00	1/4	4.10	82.00
1/4	2.34	46.80	3/16	5.00	100.0
			3/8	5.90	118.0
1 3/4 x 1 1/4 x 1/8	1.23	24.60	1/2	7.70	154.0
3/16	1.80	36.00			
1/4	2.34	46.80			
1 3/4 x 1 3/4 x 1/8	1.44	28.80			
3/16	2.12	42.40			
1/4	2.77	55.40			

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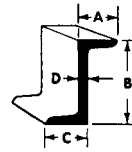
L-SHAPES (STRUCTURAL ANGLES) ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.

Stock Lengths under 28.7 Lbs. Per Ft. 20', 30', 40' and 55'/60'
Stock Lengths 28.7 Lbs. Per Ft. and heavier 40' and 55'/60' Random

Size in Inches	Est. Weight, Lbs.		Size in Inches	Est. Weight, Lbs.				
	Per Foot	20 Ft. Length		Per Foot	20 Ft. Length			
3 x2	$x\frac{3}{16}$	3.1	62.00	5 x3½	$x\frac{5}{8}$	16.8	336.0	
	$\frac{1}{4}$	4.1	82.00		$\frac{3}{4}$	19.8	396.0	
	$\frac{5}{16}$	5.0	100.0		5 x5	$x\frac{5}{16}$	10.3	210.0
	$\frac{3}{8}$	5.9	118.0		$\frac{3}{8}$	12.3	246.0	
	$\frac{7}{16}$	6.8	136.0		$\frac{7}{16}$	14.3	286.0	
3 x2½	$\frac{1}{2}$	7.7	154.0	$\frac{1}{2}$	16.2	324.0		
	$x\frac{3}{16}$	3.39	67.80	$\frac{5}{8}$	20.0	400.0		
	$\frac{1}{4}$	4.5	90.00	$\frac{3}{4}$	23.6	472.0		
	$\frac{5}{16}$	5.6	112.0	$\frac{7}{8}$	27.2	544.0		
	$\frac{3}{8}$	6.6	132.0	6 x3½	$x\frac{1}{4}$	7.9	158.0	
$\frac{7}{16}$	7.6	152.0	$\frac{5}{16}$		9.8	196.0		
$\frac{1}{2}$	8.5	170.0	$\frac{3}{8}$		11.7	234.0		
3 x3	$x\frac{3}{16}$	3.71	74.20		$\frac{1}{2}$	15.3	306.0	
	$\frac{1}{4}$	4.9	98.00		6 x4	$x\frac{1}{4}$	8.3	166.0
	$\frac{5}{16}$	6.1	122.0	$\frac{5}{16}$		10.3	206.0	
	$\frac{3}{8}$	7.2	144.0	$\frac{3}{8}$		12.3	246.0	
	$\frac{7}{16}$	9.4	188.0	$\frac{7}{16}$		14.3	286.0	
$\frac{1}{2}$	9.4	188.0	$\frac{1}{2}$	16.2		324.0		
3½ x2½	$x\frac{1}{4}$	4.9	98.00	$\frac{5}{8}$	20.0	400.0		
	$\frac{5}{16}$	6.1	122.0	$\frac{3}{4}$	23.6	472.0		
	$\frac{3}{8}$	7.2	144.0	$\frac{7}{8}$	27.2	544.0		
	3½ x2½	$x\frac{7}{16}$	8.3	166.0	6 x6	$x\frac{5}{16}$	12.4	248.0
		$\frac{1}{2}$	9.4	188.0		$\frac{3}{8}$	14.9	298.0
3½ x3		$x\frac{1}{4}$	5.4	108.0		$\frac{7}{16}$	17.2	344.0
		$\frac{5}{16}$	6.6	132.0		$\frac{1}{2}$	19.6	392.0
		$\frac{3}{8}$	7.9	158.0		$\frac{3}{8}$	24.2	484.0
	$\frac{7}{16}$	9.1	182.0	$\frac{1}{2}$	28.7	574.0		
	$\frac{1}{2}$	10.2	204.0	$\frac{3}{4}$	33.1	662.0		
3½ x3½	$x\frac{1}{4}$	5.8	116.0	7	7	37.4	748.0	
	$\frac{5}{16}$	7.2	144.0	7 x4	$x\frac{3}{8}$	13.6	272.0	
	$\frac{3}{8}$	8.5	170.0		$\frac{7}{16}$	15.8	316.0	
	$\frac{7}{16}$	9.8	196.0		$\frac{1}{2}$	17.9	358.0	
	$\frac{1}{2}$	11.1	222.0		$\frac{3}{4}$	20.0	400.0	
$\frac{3}{8}$	13.6	272.0	$\frac{5}{8}$		22.1	442.0		
4 x3	$x\frac{1}{4}$	5.8	116.0	$\frac{3}{4}$	26.2	524.0		
	$\frac{5}{16}$	7.2	144.0	8 x4	$x\frac{7}{16}$	17.2	344.0	
	$\frac{3}{8}$	8.5	170.0		$\frac{1}{2}$	19.6	392.0	
	$\frac{7}{16}$	9.8	196.0		$\frac{3}{8}$	21.9	438.0	
	$\frac{1}{2}$	11.1	222.0		$\frac{5}{8}$	24.2	484.0	
$\frac{3}{8}$	13.6	272.0	$\frac{3}{4}$		28.7	574.0		
4 x3½	$x\frac{1}{4}$	6.2	124.0	8	8	33.1	662.0	
	$\frac{5}{16}$	7.7	154.0	$\frac{1}{2}$	37.4	748.0		
	$\frac{3}{8}$	9.1	182.0	8 x6	$x\frac{7}{16}$	20.2	404.0	
	$\frac{7}{16}$	10.6	212.0		$\frac{1}{2}$	23.0	460.0	
	$\frac{1}{2}$	11.9	238.0		$\frac{3}{8}$	25.7	514.0	
$\frac{3}{8}$	14.7	294.0	$\frac{5}{8}$		28.5	570.0		
$\frac{1}{2}$	17.5	350.0	$\frac{3}{4}$		33.8	676.0		
4 x4	$x\frac{1}{4}$	6.6	132.0	8	8	39.1	782.0	
	$\frac{5}{16}$	8.2	164.0	1	44.2	884.0		
	$\frac{3}{8}$	9.8	196.0	8 x8	$x\frac{1}{2}$	26.4	528.0	
	$\frac{7}{16}$	11.3	226.0		$\frac{5}{8}$	29.6	592.0	
	$\frac{1}{2}$	12.8	256.0		$\frac{3}{4}$	32.7	654.0	
$\frac{3}{8}$	15.7	314.0	$\frac{7}{8}$		38.9	778.0		
$\frac{1}{2}$	18.5	370.0	$\frac{1}{2}$		45.0	900.0		
5 x3	$x\frac{1}{4}$	6.6	132.0	1	51.0	1020.0		
	$\frac{5}{16}$	8.2	164.0	$\frac{1}{4}$	56.9	1138.0		
	$\frac{3}{8}$	9.8	196.0	9 x4	$x\frac{1}{2}$	21.3	426.0	
	$\frac{7}{16}$	11.3	226.0		$\frac{5}{16}$	23.8	476.0	
	$\frac{1}{2}$	12.8	256.0		$\frac{3}{8}$	26.3	526.0	
$\frac{3}{8}$	15.7	314.0	$\frac{1}{2}$		31.3	626.0		
$\frac{1}{2}$	18.5	370.0	$\frac{3}{8}$		36.1	722.0		
5 x3½	$x\frac{1}{4}$	7.0	140.0	1	40.8	816.0		
	$\frac{5}{16}$	8.7	174.0					
	$\frac{3}{8}$	10.4	208.0					
	$\frac{7}{16}$	12.0	240.0					
	$\frac{1}{2}$	13.6	272.0					



Z-SHAPES (STRUCTURAL ZEES) ASTM A-36

Tensile Strength 60,000 to 80,000 P.S.I.
Stock Lengths, 20', 30', 40' and 60'

Size in Inches				Est. Weight, Lbs.	
Flange A	Depth B	Flange C	Thickness D	Per Foot	20 Ft. Length
1¼ *	1¼	1¼	$\frac{3}{16}$	2.8	56.00
2¼	3	2¼	$\frac{1}{4}$	6.7	134.0
2¼	3	2¼	$\frac{5}{8}$	9.8	196.0
2¼	3	2¼	$\frac{1}{2}$	12.6	252.0
3¼	4	3¼	$\frac{1}{4}$	8.2	164.0
3¼	4¼	3¼	$\frac{5}{16}$	10.3	206.0
3¼	4¼	3¼	$\frac{1}{2}$	15.9	318.0
3¼	4¾	3¼	$\frac{3}{8}$	12.5	250.0
3¼	5	3¼	$\frac{5}{16}$	11.6	232.0
3¼	5	3¼	$\frac{1}{2}$	17.9	358.0
3¼	5½	3¼	$\frac{3}{8}$	14.0	280.0
3½	6	3½	$\frac{3}{8}$	15.7	314.0
3½	6¾	3½	$\frac{1}{2}$	21.1	422.0

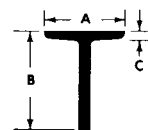
*This is a bar size, carried M1020 Merchant Quality. Stock lengths, 20' and 40'.

GALVANIZED ANGLES A-36

Hot Dip Process
Stock Length 20'

Size in Inches	Est. Weight, Lbs.		Size in Inches	Est. Weight, Lbs.	
	Per Foot	20 Ft. Length		Per Foot	20 Ft. Length
$\frac{3}{4} x \frac{3}{4}$.62	12.40	$1\frac{1}{2} x 1\frac{1}{2}$	1.89	37.80
1 x1	.84	16.80	$\frac{1}{4}$	2.46	49.20
$1\frac{1}{4} x 1\frac{1}{4}$	1.06	21.20	2 x2	1.73	34.60
$\frac{3}{16}$	1.55	31.00	$\frac{3}{16}$	2.56	51.20
$1\frac{1}{2} x 1\frac{1}{2}$	1.29	25.80	$\frac{1}{4}$	3.35	67.00

Most sections also available in high strength, low alloy chemistries.



T-SHAPES (STRUCTURAL TEES) ASTM A-36

According to the American Institute of Steel Construction

Tensile Strength 60,000 to 80,000 P.S.I.
Specify tees by flange first, then stem and thickness
Stock Lengths, 20', 30', 40' and 55'/60' Random

Size in Inches			Est. Weight, Lbs.		Size in Inches			Est. Weight, Lbs.	
Flange A	Stem B	Thickness C	Per Foot	20 Ft. Length	Flange A	Stem B	Thickness C	Per Foot	20 Ft. Length
3	2½	$\frac{5}{16}$	6.1	122.0	4	3	$\frac{3}{8}$	9.2	184.0
3	3	$\frac{5}{16}$	6.7	134.0	4	4	$\frac{1}{2}$	13.5	270.0
		$\frac{3}{8}$	7.8	156.0	5	3¾	$\frac{1}{2}$	13.6	272.0
4	2½	$\frac{3}{8}$	8.5	170.0					



H - PILES

Theoretical Dimensions and Properties for Designing

Section Number	Weight per Foot	Area of Section A	Depth of Section d	Flange		Web Thickness t _w	Axis X-X			Axis Y-Y			r _T
				Width b _f	Thick-ness t _f		I _x	S _x	r _x	I _y	S _y	r _y	
HP14 x	117	34.4	14.21	14.885	0.805	0.805	1220	172	5.96	443	59.5	3.59	4.00
	102	30.0	14.01	14.785	0.705	0.705	1050	150	5.92	380	51.4	3.56	3.97
	89	26.1	13.83	14.695	0.615	0.615	904	131	5.88	326	44.3	3.53	3.94
	73	21.4	13.61	14.585	0.505	0.505	729	107	5.84	261	35.8	3.49	3.90
HP12 x	74	21.8	12.13	12.215	0.610	0.605	569	93.8	5.11	186	30.4	2.92	3.26
	63	18.4	11.94	12.125	0.515	0.515	472	79.1	5.06	153	25.3	2.88	3.23
	53	15.5	11.78	12.045	0.435	0.435	393	66.8	5.03	127	21.1	2.86	3.20
HP10 x	57	16.8	9.99	10.225	0.565	0.565	294	58.8	4.18	101	19.7	2.45	2.74
	42	12.4	9.70	10.075	0.420	0.415	210	43.4	4.13	71.7	14.2	2.41	2.69
HP8 x	36	10.6	8.02	8.155	0.445	0.445	119	29.8	3.36	40.3	9.88	1.95	2.18

H-Piles have parallel-faced flanges.

