
E

SECTION E

BAR SIZE AND STRUCTURAL SHAPES

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STOCK LENGTHS OF STRUCTURAL SHAPES

Instead of the various stock lengths of Structurals being itemized herein, only the longest length carried in stock is shown Stock lengths of Bar Size Shapes, however, are listed herein.

BAR SIZE AND STRUCTURAL SHAPES

ASTM Specification A 36

A shape is classed a "Bar Size Shape" when its greatest dimension (length excluded) is less than 3 inches. It is a "Structural Shape" when at least one of its dimensions (length excluded) is 3 inches or greater.

The shapes listed in this section conform to ASTM A 36, a standard specification for structural steel.

ANALYSIS

Carbon	Phosphorus	Sulphur
.26 Max.	.04 Max.	.05 Max.

APPLICATIONS — For use in riveted, bolted, or welded construction of bridges and buildings, and for general structural purposes.

MECHANICAL PROPERTIES — ASTM A 36 requirements are:

Tensile Strength (psi)	Yield Strength (psi)	% Elongation in 8"
58,000/80,000	36,000 Min.	20% Min. ^a

^aSubject to a deduction from the above percentage of elongation for thicknesses under $\frac{5}{16}$ " and over $\frac{3}{4}$ ".

WELDABILITY — These shapes are easily welded by all the welding processes, and the resultant welds and joints are of extremely high quality. The grade of welding rod to be used depends on thickness of section, design, service requirements, etc.

GALVANIZED SHAPES

Angles and other shapes listed herein can be furnished galvanized upon request.

AISI STANDARD DESIGNATIONS

Structural Shapes

Listed on the following pages are shapes commonly carried in stock. The American Iron and Steel Institute has established a designation system for structural shape, which has been adopted by steel producers. In the column headed "AISI Designation", a letter or letters precedes the size and weight per foot. For example, C3 x 4.1 is the AISI designation for a 3" x 4.1# Standard Structural Channel

Shown below is a summary of the AISI designations:

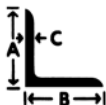
"W" shapes are doubly-symmetric wide flange shapes used as beams or columns whose inside flange surfaces are substantially parallel. A shape having essentially the same nominal weight and dimensions as a "W" shape listed in the tabulation but whose inside flange surfaces are not parallel may also be considered a "W" shape having the same nomenclature as the tabulated shape, provided its average flange thickness is essentially the same shape as the flange thickness of the "W" shape.

"S" shapes are doubly-symmetric shapes produced in accordance with dimensional standards adopted in 1896 by the Association of American Steel Manufacturers for American Standard beam shapes. The essential part of these standards is that the inside flange surfaces of American Standard beam shapes have approximately a 16²/₃% slope.

"M" shapes are doubly-symmetric shapes that cannot be classified as "W", "S", or bearing pile shapes. (Although not included in the standard nomenclature tabulation, bearing piles are doubly-symmetric wide flange shapes whose inside flange surfaces are essentially parallel and whose flange and web have essentially the same thickness.)

"C" shapes are channels produced in accordance with dimensional standards adopted in 1896 by the Association of American Steel Manufacturers for American Standard channels. The essential part of these standards is that the inside flange surfaces of American Standard channels have approximately a 16²/₃% slope.

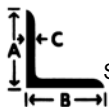
"MC" shapes are channels that cannot be classified as "C" shapes.



ANGLES – BAR SIZES

Stock Lengths 20', 30', & 40' as indicated

Size In Inches			Estimated Weight, Lbs.			
A	B	C	Per Foot	20-Ft. Length	30-Ft. Length	40-Ft. Length
1/2	x 1/2	x 1/8	.38	7.6	11.4	—
5/8	x 5/8	x 1/8	.48	9.6	14.4	—
3/4	x 3/4	x 1/8	.59	11.8	17.7	—
7/8	x 7/8	x 1/8	.70	14.0	21.0	—
1	x 5/8	x 1/8	.64	12.8	19.2	—
1	x 3/4	x 1/8	.70	14.0	21.0	28.0
1	x 1	x 1/8	.80	16.0	24.0	32.0
		3/16				
		1/4	1.16 ^{1.16}	23.2 ^{23.2}	34.8 ^{34.8}	46.4 ^{46.4}
1 1/8	x 1 1/8	x 1/8	.90	18.0	27.0	36.0
1 1/4	x 1 1/4	x 1/8	1.01	20.2	30.3	40.4
		3/16	1.48	29.6	44.4	59.2
		1/4	1.92	38.4	57.6	76.8
1 3/8	x 7/8	x 1/8	.91	18.2	27.3	36.4
		3/16	1.32	26.4	39.6	52.8
1 1/2	x 1 1/4	x 3/16	1.64	32.8	49.2	65.6
1 1/2	x 1 1/2	x 1/8	1.23	24.6	36.9	49.2
		3/16	1.80	36.0	54.0	72.0
		1/4	2.34	46.8	70.2	93.6
		5/16	2.86	57.2	85.8	114.4
		3/8	3.35	67.0	100.5	134.0
1 3/4	x 1 1/4	x 1/8	1.23	24.6	36.9	49.2
		3/16	1.80	36.0	54.0	72.0
		1/4	2.34	46.8	70.2	93.6
1 3/4	x 1 3/4	x 1/8	1.44	28.8	43.2	57.6
		3/16	2.12	42.4	63.6	84.8
		1/4	2.77	55.4	83.1	110.8
2	x 1 1/4	x 3/16	1.96	39.2	58.8	78.4
		1/4	2.55	51.0	76.5	102.0
2	x 1 1/2	x 1/8	1.44	28.8	43.2	57.6
		3/16	2.12	42.4	63.6	84.8
		1/4	2.77	55.4	83.1	110.8
2	x 2	x 1/8	1.65	33.0	49.5	66.0
		3/16	2.44	48.8	73.2	97.6
		1/4	3.19	63.8	95.7	127.6
		5/16	3.92	78.4	117.6	156.8
		3/8	4.70	94.0	141.0	188.0
		1/2	5.92	118.4	177.6	236.8
2 1/2	x 1 1/2	x 3/16	2.44	48.8	73.2	97.6
		1/4	3.19	63.8	95.7	127.6
		5/16	3.92	78.4	117.6	156.8
2 1/2	x 2	x 3/16	2.75	55.0	82.5	110.0
		1/4	3.62	72.4	108.6	144.8
		5/16	4.50	90.0	135.0	180.0
		3/8	5.30	106.0	159.0	212.0
2 1/2	x 2 1/2	x 3/16	3.07	61.4	92.1	122.8
		1/4	4.10	82.0	123.0	164.0
		5/16	5.00	100.0	150.0	200.0
		3/8	5.90	118.0	177.0	236.0
		1/2	7.70	154.0	231.0	308.0



ANGLES – STRUCTURAL SIZES

Stocked in Lengths up to 60'. See Page 1 of this Section.

Size in Inches			Estimated Weight, Lbs.					Size in Inches			Estimated Weight, Lbs.				
			Per Foot	20-Ft. Lgth	30-Ft. Lgth	40-Ft. Lgth	60-Ft. Lgth				Per Foot	20-Ft. Lgth	30-Ft. Lgth	40-Ft. Lgth	60-Ft. Lgth
3	X 2	X 3/16	3.07	61	92	123	184	5	X 3	X 1/4	6.6	132	198	264	396
		1/4	4.1	82	123	164	246				8.2	164	246	328	492
		5/16	5.0	100	150	200	300				9.8	196	294	392	588
		3/8	5.9	118	177	236	354				12.8	256	384	512	768
		1/2	7.7	154	231	308	462								
3	X 2 1/2	X 1/4	4.5	90	135	180	270	5	X 3 1/2	X 1/4	7.0	140	210	280	420
		5/16	5.6	112	168	224	336				8.7	174	261	348	522
		3/8	6.6	132	198	264	396				10.4	208	312	416	624
		5/8	6.6	132	198	264	396				13.6	272	408	544	816
		1/2	8.5	170	255	340	510				16.8	336	504	672	1008
3	X 3	X 3/16	3.71	74	111	148	223	5	X 5	X 5/16	10.3	206	309	412	618
		1/4	4.9	98	147	196	294				12.3	246	369	492	738
		5/16	6.1	122	183	244	366				16.2	324	486	648	972
		3/8	7.2	144	216	288	432				20.0	400	600	800	1200
		1/2	9.4	188	282	376	564				23.6	472	708	944	1416
3 1/2	X 2 1/2	X 1/4	4.9	98	147	196	294	6	X 3 1/2	X 1/4	7.9	158	237	316	474
		5/16	6.1	122	183	244	366				9.8	196	294	392	588
		3/8	7.2	144	216	288	432				11.7	234	351	468	702
		5/8	7.2	144	216	288	432				15.3	306	459	612	918
		1/2	9.4	188	282	376	564								
3 1/2	X 3	X 1/4	5.4	108	162	216	324	6	X 4	X 5/16	10.3	206	309	412	618
		5/16	6.6	132	198	264	396				12.3	246	369	492	738
		3/8	7.9	158	237	316	474				16.2	324	486	648	972
		5/8	7.9	158	237	316	474				20.0	400	600	800	1200
		1/2	10.2	204	306	408	612				23.6	472	708	944	1416
3 1/2	X 3 1/2	X 1/4	5.8	116	174	232	348	6	X 6	X 5/16	12.4	248	372	496	744
		5/16	7.2	144	216	288	432				14.9	298	447	596	894
		3/8	8.5	170	255	340	510				19.6	392	588	784	1176
		5/8	8.5	170	255	340	510				28.7	574	861	1148	1722
		1/2	11.1	222	333	444	666				37.4	748	1122	1496	2244
4	X 3	X 1/4	5.8	116	174	232	348	7	X 4	X 3/8	13.6	272	408	544	816
		5/16	7.2	144	216	288	432				17.9	358	537	716	1074
		3/8	8.5	170	255	340	510				22.1	442	663	884	1326
		5/8	8.5	170	255	340	510				26.2	524	786	1048	1572
		1/2	11.1	222	333	444	666								
4	X 3 1/2	X 1/4	6.2	124	186	248	372	8	X 4	X 1/2	19.6	392	588	784	1176
		5/16	7.7	154	231	308	462				24.2	484	726	968	1452
		3/8	9.1	182	273	364	546				28.7	574	861	1148	1722
		5/8	9.1	182	273	364	546				23.0	460	690	920	1380
		1/2	11.9	238	357	476	714				33.8	676	1014	1352	2028
4	X 4	X 1/4	6.6	132	198	264	396	8	X 8	X 1/2	44.2	884	1326	1768	2652
		5/16	8.2	164	246	328	492				26.4	528	792	1056	1584
		3/8	9.8	196	294	392	588				32.7	654	981	1308	1962
		5/8	9.8	196	294	392	588				38.9	778	1167	1556	2334
		1/2	12.8	256	384	512	768				51.0	1020	1530	2040	3060
4	X 4	X 1/4	6.6	132	198	264	396	9	X 4	X 1/2	21.3	426	639	852	1278
		5/16	8.2	164	246	328	492								
		3/8	9.8	196	294	392	588								
		5/8	15.7	314	471	628	942								
		3/4	18.5	370	555	740	1110								



CHANNEL – BAR SIZES

Stock Lengths 20' and 30'

Size in Inches			Estimated Weight, Lbs.			Size in Inches			Estimated Weight, Lbs.		
A	B	C	Per Foot	20-Ft. Length	30-Ft. Length	A	B	C	Per Foot	20-Ft. Length	30-Ft. Length
3/4	x 3/8	x 1/8	.56	11.2	16.8	1 1/2	x 3/4	x 1/8	1.17	23.4	35.1
1	x 3/8	x 1/8	.68	13.6	20.4	2	x 1/2	x 1/8	1.43	28.6	42.9
1	x 1/2	x 1/8	.84	16.8	25.2	2	x 9/16	x 3/16	1.86	37.2	55.8
1 1/4	x 1/2	x 1/8	1.01	20.2	30.3	2	x 5/8	x 1/4	2.28	45.6	68.4
1 1/2	x 1/2	x 1/8	1.12	22.4	33.6	2	x 1	x 1/8	1.78	35.6	53.4
1 1/2	x 9/16	x 3/16	1.44	28.8	43.2	2	x 1	x 3/16	2.57	51.4	77.1
						2 1/2	x 5/8	x 3/16	2.27	45.4	68.1



CHANNEL – STANDARD STRUCTURAL SIZES

Stocked in Lengths up to 60'. See Page 1 of this Section.

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.				
				Per Foot	20-Ft. Length	30-Ft. Length	40-Ft. Length	60-Ft. Length
C3 x 4.1	3	1.410	.170	4.1	82	123	164	246
C3 x 5	3	1.498	.258	5.0	100	150	200	300
C3 x 6	3	1.596	.356	6.0	120	180	240	360
C4 x 5.4	4	1.584	.184	5.4	108	162	216	324
C4 x 6.25	4	1.647	.247	6.25	125	188	250	375
C4 x 7.25	4	1.721	.321	7.25	145	218	290	435
C5 x 6.7	5	1.750	.190	6.7	134	201	268	402
C5 x 9	5	1.885	.325	9.0	180	270	360	540
C6 x 8.2	6	1.920	.200	8.2	164	246	328	492
C6 x 10.5	6	2.034	.314	10.5	210	315	420	630
C6 x 13	6	2.157	.437	13.0	260	390	520	780
C7 x 9.8	7	2.090	.210	9.8	196	294	392	588
C7 x 12.25	7	2.194	.314	12.25	245	368	490	735
C7 x 14.75	7	2.299	.419	14.75	295	443	590	885
C8 x 11.5	8	2.260	.220	11.5	230	345	460	690
C8 x 13.75	8	2.343	.303	13.75	275	413	550	825
C8 x 18.75	8	2.527	.487	18.75	375	563	750	1125
C9 x 13.4	9	2.433	.233	13.4	268	402	536	804
C9 x 15	9	2.485	.285	15.0	300	450	600	900
C9 x 20	9	2.648	.448	20.0	400	600	800	1200
C10 x 15.3	10	2.600	.240	15.3	306	459	612	918
C10 x 20	10	2.739	.379	20.0	400	600	800	1200
C10 x 25	10	2.886	.526	25.0	500	750	1000	1500
C10 x 30	10	3.033	.673	30.0	600	900	1200	1800
C12 x 20.7	12	2.942	.282	20.7	414	621	828	1242
C12 x 25	12	3.047	.387	25.0	500	750	1000	1500
C12 x 30	12	3.170	.510	30.0	600	900	1200	1800
C15 x 33.9	15	3.400	.400	33.9	678	1017	1356	2034
C15 x 40	15	3.520	.520	40.0	800	1200	1600	2400
C15 x 50	15	3.716	.716	50.0	1000	1500	2000	3000



MISCELLANEOUS CHANNELS – STRUCTURAL SIZES

Stocked in Lengths up to 60'. See Page 1 of this Section.

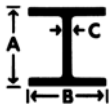
AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.				
				Per Foot	20-Ft. Length	30-Ft. Length	40-Ft. Length	60-Ft. Length
MC3 x 7.1	3	1.938	.312	7.1	142	213	284	426
MC4 x 13.8	4	2.500	.500	13.8	276	414	552	828
MC6 x 12.0	6	2.497	.310	12.0	240	360	480	720
MC6 x 15.3	6	3.500	.340	15.3	306	459	612	918
MC6 x 16.3	6	3.000	.375	16.3	326	489	652	978
MC6 X18.0	6	3.504	.379	18.0	360	540	720	1080
MC7 x 19.1	7	3.452	.352	19.1	382	573	764	1146
MC7 x 22.7	7	3.603	.503	22.7	454	681	908	1362
MC8 x 8.5	8	1.875	.188	8.5	170	255	340	510
MC8 x 18.7	8	2.978	.353	18.7	374	561	748	1122
MC8 x 20.0	8	3.025	.400	20.0	400	600	800	1200
MC8 x 21.4	8	3.450	.375	21.4	428	642	856	1284
MC8 x 22.8	8	3.502	.427	22.8	456	684	912	1368
MC9 x 23.9	9	3.450	.400	23.9	478	717	956	1434
MC9 x 25.4	9	3.500	.450	25.4	508	762	1016	1524
MC10 x 6.5	10	1.125	.150	6.5	130	195	260	390
MC10 x 8.4	10	1.500	.170	8.4	168	252	336	504
MC10 x 22.0	10	3.376	.312	22.0	440	660	880	1320
MC10 x 25.0	10	3.405	.380	25.0	500	750	1000	1500
MC10 x 28.5	10	3.950	.425	28.5	570	855	1140	1710
MC10 x 33.6	10	4.100	.575	33.6	672	1008	1344	2016
MC12 x 10.6	12	1.500	.190	10.6	212	318	424	636
MC12 x 31.0	12	3.670	.370	31.0	620	930	1240	1860
MC12 x 35.0	12	3.767	.467	35.0	700	1050	1400	2100
MC12 x 37.0	12	3.600	.600	37.0	740	1110	1480	2220
MC12 x 45.0	12	4.012	.712	45.0	900	1350	1800	2700
MC12 x 50.0	12	4.135	.835	50.0	1000	1500	2000	3000
MC13 x 31.8	13	4.000	.375	31.8	636	954	1272	1908
MC13 x 40.0	13	4.185	.560	40.0	800	1200	1600	2400
MC13 x 50.0	13	4.412	.787	50.0	1000	1500	2000	3000
MC18 x 42.7	18	3.950	.450	42.7	854	1281	1708	2562
MC18 x 45.8	18	4.000	.500	45.8	916	1374	1832	2748
MC18 x 51.9	18	4.100	.600	51.9	1038	1557	2076	3114
MC18 x 58.0	18	4.200	.700	58.0	1160	1740	2320	3480



STANDARD ("I") BEAMS

Stocked in Lengths up to 60'. See Page 1 of this Section.

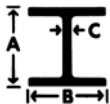
AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.				
				Per Foot	20-Ft. Length	30-Ft. Length	40-Ft. Length	60-Ft. Length
S3 x 5.7	3	2.330	.170	5.7	114	171	228	342
S3 x 7.5	3	2.509	.349	7.5	150	225	300	450
S4 x 7.7	4	2.663	.193	7.7	154	231	308	462
S4 x 9.5	4	2.796	.326	9.5	190	285	380	570
S5 x 10	5	3.004	.214	10.0	200	300	400	600
S5 x14.75	5	3.284	.494	14.75	295	443	590	885
S6 x 12.5	6	3.332	.232	12.5	250	375	500	750
S6 X17.25	6	3.565	.465	17.25	345	518	690	1035
S7 x 15.3	7	3.662	.252	15.3	306	459	612	918
S7 x 20	7	3.860	.450	20.0	400	600	800	1200
S8 x 18.4	8	4.001	.271	18.4	368	552	736	1104
S8 x 23	8	4.171	.441	23.0	460	690	920	1380
S10 x25.4	10	4.661	.311	25.4	508	762	1016	1524
S10 x 35	10	4.944	.594	35.0	700	1050	1400	2100
S12 x31.8	12	5.000	.350	31.8	636	954	1272	1908
S12 x 35	12	5.078	.428	35.0	700	1050	1400	2100
S12 x40.8	12	5.252	.462	40.8	816	1224	1632	2448
S12 x 50	12	5.477	.687	50.0	1000	1500	2000	3000
S15 x42.9	15	5.501	.411	42.9	858	1287	1716	2574
S15 x 50	15	5.640	.550	50.0	1000	1500	2000	3000
S18 x54.7	18	6.001	.461	54.7	1094	1641	2188	3282
S18 x 70	18	6.251	.711	70.0	1400	2100	2800	4200
S20 x 66	20	6.255	.505	66.0	1320	1980	2640	3960
S20 x 75	20	6.385	.635	75.0	1500	2250	3000	4500
S20 x 86	20	7.060	.660	86.0	1720	2580	3440	5160
S20 x 96	20	7.200	.800	96.0	1920	2880	3840	5760
S24 x 80	24	7.000	.500	80.0	1600	2400	3200	4800
S24 x 90	24	7.125	.625	90.0	1800	2700	3600	5400
S24 x 100	24	7.245	.745	100.0	2000	3000	4000	6000
S24 x 106	24.5	7.870	.620	106.0	2120	3180	4240	6360
S24 x 121	24.5	8.050	.800	121.0	2420	3630	4840	7260



WIDE FLANGE (W) AND MISCELLANEOUS SHAPES (M)

Stocked in Lengths up to 60'. See Page 1 of this Section.

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.			
				Per Foot	20-Ft. Length	40-Ft. Length	60-Ft. Length
W4 x 13.0	4.16	4.060	.280	13.0	260	520	780
M4 x 13.0	4.00	3.940	.254	13.0	260	520	780
W5 x 16.0	5.01	5.000	.240	16.0	320	640	960
M5 x 18.9	5.00	5.003	.316	18.9	378	756	1134
W5 x 19.0	5.15	5.030	.270	19.0	380	760	1140
M6 x 4.4	6.00	1.844	.114	4.4	88	176	264
W6 X 9.0	5.90	3.940	.170	9.0	180	360	540
W6 X 12.0	6.03	4.000	.230	12.0	240	480	720
W6 X 15.0	5.99	5.990	.230	15.0	300	600	900
W6 X 16.0	6.28	4.030	.260	16.0	320	640	960
W6 X 20.0	6.20	6.020	.260	20.0	400	800	1200
W6 X 25.0	6.38	6.080	.320	25.0	500	1000	1500
M8 x 6.5	8.00	2.281	.135	6.5	130	260	390
W8 x 10.0	7.89	3.940	.170	10.0	200	400	600
W8 x 13.0	7.99	4.000	.230	13.0	260	520	780
W8 x 15.0	8.11	4.015	.245	15.0	300	600	900
W8 x 18.0	8.14	5.250	.230	18.0	360	720	1080
W8 x 21.0	8.28	5.270	.250	21.0	420	840	1260
W8 x 24.0	7.93	6.495	.245	24.0	480	960	1440
W8 x 28.0	8.06	6.535	.285	28.0	560	1120	1680
W8 x 31.0	8.00	7.995	.285	31.0	620	1240	1860
W8 x 35.0	8.12	8.020	.310	35.0	700	1400	2100
W8 x 40.0	8.25	8.070	.360	40.0	800	1600	2400
W8 x 48.0	8.50	8.110	.400	48.0	960	1920	2880
W8 x 58.0	8.75	8.220	.510	58.0	1160	2320	3480
W8 x 67.0	9.00	8.280	.570	67.0	1340	2680	4020
M10 x 9.0	10.00	2.690	.157	9.0	180	360	540
W10 x 12.0	9.87	3.960	.190	12.0	240	480	720
W10 x 15.0	9.99	4.000	.230	15.0	300	600	900
W10 x 17.0	10.11	4.010	.240	17.0	340	680	1020
W10 x 19.0	10.24	4.020	.250	19.0	380	760	1140
W10 x 22.0	10.17	5.750	.240	22.0	440	880	1320
W10 x 26.0	10.33	5.770	.260	26.0	520	1040	1560
W10 x 30.0	10.47	5.810	.300	30.0	600	1200	1800
W10 x 33.0	9.73	7.960	.290	33.0	660	1320	1980
W10 x 39.0	9.92	7.985	.315	39.0	780	1560	2340
W10 x 45.0	10.10	8.020	.350	45.0	900	1800	2700
W10 x 49.0	9.98	10.000	.340	49.0	980	1960	2940
W10 x 54.0	10.09	10.030	.370	54.0	1080	2160	3240
W10 X 60.0	10.22	10.080	.420	60.0	1200	2400	3600
W10 X 68.0	10.40	10.130	.470	68.0	1360	2720	4080
W10 X 77.0	10.60	10.190	.530	77.0	1540	3080	4620
W10 X 88.0	10.84	10.265	.605	88.0	1760	3520	5280
W10 X 100.0	11.10	10.340	.680	100.0	2000	4000	6000



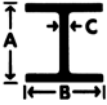
WIDE FLANGE (W) AND MISCELLANEOUS SHAPES (M)

(Continued)

Stocked in Lengths up to 60'. See Page 1 of this Section.

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.			
				Per Foot	20-Ft. Length	40-Ft. Length	60-Ft. Length
M12 x 11.8	12.00	3.065	.177	11.8	236	472	708
W12 x 14.0	11.91	3.970	.200	14.0	280	560	840
W12 x 16.0	11.99	3.990	.220	16.0	320	640	960
W12 x 19.0	12.16	4.005	.235	19.0	380	760	1140
W12 x 22.0	12.31	4.030	.260	22.0	440	880	1320
W12 x 26.0	12.22	6.490	.230	26.0	520	1040	1560
W12 x 30.0	12.34	6.520	.260	30.0	600	1200	1800
W12 x 35.0	12.50	6.560	.300	35.0	700	1400	2100
W12 x 40.0	11.94	8.005	.295	40.0	800	1600	2400
W12 x 45.0	12.06	8.045	.335	45.0	900	1800	2700
W12 x 50.0	12.19	8.080	.370	50.0	1000	2000	3000
W12 x 53.0	12.06	9.995	.345	53.0	1060	2120	3180
W12 x 58.0	12.19	10.010	.360	58.0	1160	2320	3480
W12 x 65.0	12.12	12.000	.390	65.0	1300	2600	3900
W12 x 72.0	12.25	12.040	.430	72.0	1440	2880	4320
W12 x 79.0	12.38	12.080	.470	79.0	1580	3160	4740
W12 x 87.0	12.53	12.125	.515	87.0	1740	3480	5220
W12 x 96.0	12.71	12.160	.550	96.0	1920	3840	5760
W12 x106.0	12.89	12.220	.610	106.0	2120	4240	6360
W12 x120.0	13.12	12.320	.710	120.0	2400	4800	7200
W12 x136.0	13.41	12.400	.790	136.0	2720	5440	8160
M14 x 22.0	13.72	5.000	.230	22.0	440	880	1320
W14 x 26.0	13.91	5.025	.255	26.0	520	1040	1560
W14 x 30.0	13.84	6.730	.270	30.0	600	1200	1800
W14 x 34.0	13.98	6.745	.285	34.0	680	1360	2040
W14 x 38.0	14.10	6.770	.310	38.0	760	1520	2280
W14 x 43.0	13.66	7.995	.305	43.0	860	1720	2580
W14 x 48.0	13.79	8.030	.340	48.0	960	1920	2880
W14 x 53.0	13.92	8.060	.370	53.0	1060	2120	3180
W14 x 61.0	13.89	9.995	.375	61.0	1220	2440	3660
W14 x 68.0	14.04	10.035	.415	68.0	1360	2720	4080
W14 x 74.0	14.17	10.070	.450	74.0	1480	2960	4440
W14 x 82.0	14.31	10.130	.510	82.0	1640	3280	4920
W14 x 90.0	14.02	14.520	.440	90.0	1800	3600	5400
W14 X99.0	14.16	14.565	.485	99.0	1980	3960	5940
W14 X109.0	14.32	14.605	.525	109.0	2180	4360	6540
W14 X120.0	14.48	14.670	.590	120.0	2400	4800	7200
W14 X132.0	14.66	14.725	.645	132.0	2640	5280	7920
W14 X159.0	14.98	15.565	.745	159.0	3180	6360	9540
W16 X26.0	15.69	5.500	.250	26.0	520	1040	1560
W16 X31.0	15.88	5.525	.275	31.0	620	1240	1860
W16 X36.0	15.86	6.985	.295	36.0	720	1440	2160
W16 X40.0	16.01	6.995	.305	40.0	800	1600	2400
W16 X45.0	16.13	7.035	.345	45.0	900	1800	2700
W16 X50.0	16.26	7.070	.380	50.0	1000	2000	3000

(Continued on next page)



WIDE FLANGE (W) AND MISCELLANEOUS SHAPES (M)

(Continued)

Stocked in Lengths up to 60'. See Page 1 of this Section.

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight, Lbs.			
				Per Foot	20-Ft. Length	40-Ft. Length	60-Ft. Length
M16 x 57.0	16.43	7.120	.430	57.0	1140	2280	3420
W16 x 67.0	16.33	10.235	.395	67.0	1340	2680	4020
W16 x 77.0	16.52	10.295	.455	77.0	1540	3080	4620
W16 x 89.0	16.75	10.365	.525	89.0	1780	3560	5340
W16 x100.0	16.97	10.425	.585	100.0	2000	4000	6000
W18 x 35.0	17.70	6.000	.300	35.0	700	1400	2100
W18 x 40.0	17.90	6.015	.315	40.0	800	1600	2400
W18 x 46.0	18.06	6.060	.360	46.0	920	1840	2760
W18 x 50.0	17.99	7.495	.355	50.0	1000	2000	3000
W18 x 55.0	18.11	7.530	.390	55.0	1100	2200	3300
W18 x 60.0	18.24	7.555	.415	60.0	1200	2400	3600
W18 x 65.0	18.35	7.590	.450	65.0	1300	2600	3900
W18 x 71.0	18.47	7.635	.495	71.0	1420	2840	4260
W18 x 76.0	18.21	11.035	.425	76.0	1520	3040	4560
W18 x 86.0	18.39	11.090	.480	86.0	1720	3440	5160
W18 x 97.0	18.59	11.145	.535	97.0	1940	3880	5820
W18 x106.0	18.73	11.200	.590	106.0	2120	4240	6360
W18 x119.0	18.97	11.265	.655	119.0	2380	4760	7140
W21 x 44.0	20.66	6.500	.350	44.0	880	1760	2640
W21 x 57.0	21.06	6.555	.405	57.0	1140	2280	3420
W21 x 62.0	20.99	8.240	.400	62.0	1240	2480	3720
M21 x 68.0	21.13	8.270	.430	68.0	1360	2720	4080
W21 x 73.0	21.24	8.295	.455	73.0	1460	2920	4380
W21 x 83.0	21.43	8.355	.515	83.0	1660	3320	4980
W21 x101.0	21.36	12.290	.500	101.0	2020	4040	6060
W24 x 55.0	23.57	7.005	.395	55.0	1800	2200	3300
W24 x 68.0	23.73	8.965	.415	68.0	1360	2720	4080
W24 x 76.0	23.92	8.990	.440	76.0	1520	3040	4560
W24 x 84.0	24.10	9.020	.470	84.0	1680	3360	5040
W24 x 94.0	24.31	9.065	.515	94.0	1880	3760	5640
W24 x104.0	24.06	12.750	.500	104.0	2080	4160	6240
W24 x117.0	24.26	12.800	.550	117.0	2340	4680	7020
W24 x131.0	24.48	12.855	.605	131.0	2620	5240	7860
W24 x146.0	24.74	12.900	.650	146.0	2920	5840	8760
W24 X162.0	25.00	12.955	.705	162.0	3240	6480	9720
W27 X94.0	26.92	9.990	.490	94.0	1880	3760	5640
W27 X102.0	27.09	10.015	.515	102.0	2040	4080	6120
W27 X114.0	27.29	10.070	.570	114.0	2280	4560	6840
W27 X146.0	27.38	13.965	.605	146.0	2920	5840	8760
W27 X161.0	27.59	14.020	.660	161.0	3220	6440	9660
W30 X108.0	29.83	10.475	.545	108.0	2160	4320	6480
W30 X116.0	30.01	10.495	.565	116.0	2320	4640	6960
W30 X124.0	30.17	10.515	.585	124.0	2480	4960	7440
W30 X132.0	30.31	10.545	.615	132.0	2640	5280	7920



BAR SIZE TEES

Stocked in Lengths of 20' and 30'.

Size in Inches					Estimated Weight, Lbs.		
Flange A		Stem B		Thickness C	Per Foot	20-Ft. Length	30-Ft. Length
1	x	1	x	1/8	.85	17.0	25.5
1 1/4	x	1 1/4	x	1/8	1.09	21.8	32.7
				3/16	1.55	31.0	46.5
1 1/2	x	1 1/2	x	3/16	1.90	38.0	57.0
				1/4	2.43	48.6	72.9
1 3/4	x	1 3/4	x	3/16	2.16	43.2	64.8
2	x	2	x	1/4	3.62	72.4	108.6
2 1/2	x	2 1/2	x	1/4	4.60	92.0	138.0



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