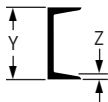


BEAM DIMENSIONS



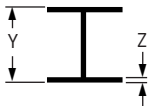
AMERICAN STANDARD CHANNELS			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
3	4.1	1 $\frac{3}{8}$	0.250
	5.0	1 $\frac{1}{2}$	
	6.0	1 $\frac{5}{8}$	
4	5.4	1 $\frac{5}{8}$	0.313
	7.25	1 $\frac{3}{4}$	
5	6.7	1 $\frac{3}{4}$	0.313
	9.0	1 $\frac{7}{8}$	
6	8.2	1 $\frac{7}{8}$	0.375
	10.5	2	
	13.0	2 $\frac{1}{8}$	
7	9.8	2 $\frac{1}{8}$	0.375
	12.25	2 $\frac{1}{4}$	
	14.75	2 $\frac{1}{4}$	
8	11.5	2 $\frac{1}{4}$	0.375
	13.75	2 $\frac{3}{8}$	
	18.75	2 $\frac{1}{2}$	

AMERICAN STANDARD CHANNELS			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
9	13.4	2 $\frac{3}{8}$	0.438
	15.0	2 $\frac{1}{2}$	
	20.0	2 $\frac{5}{8}$	
10	15.3	2 $\frac{5}{8}$	0.438
	20.0	2 $\frac{3}{4}$	
	25.0	2 $\frac{7}{8}$	
	30.0	3	
12	20.7	3	0.500
	25.0	3	
	30.0	3 $\frac{1}{8}$	
	33.9	3 $\frac{3}{8}$	
15	40.0	3 $\frac{1}{2}$	0.625
	50.0	3 $\frac{3}{4}$	
	42.7	4	
18	45.8	4	0.625
	51.9	4 $\frac{1}{8}$	
	58.0	4 $\frac{1}{4}$	

S SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
3	5.7	2 $\frac{3}{8}$	0.250
	7.5	2 $\frac{1}{2}$	
4	7.7	2 $\frac{5}{8}$	0.313
	9.5	2 $\frac{3}{4}$	
5	10.0	3	0.313
	14.75	3 $\frac{1}{4}$	
6	12.5	3 $\frac{3}{8}$	0.375
	17.25	3 $\frac{5}{8}$	
7	15.3	3 $\frac{3}{8}$	0.375
	20.0	3 $\frac{7}{8}$	
8	18.4	4	0.438
	23.0	4 $\frac{1}{8}$	
10	25.4	4 $\frac{5}{8}$	0.500
	35.0	5	
12	31.8	5	0.563
	35.0	5 $\frac{1}{8}$	
	40.8	5 $\frac{1}{4}$	0.688
	50.0	5 $\frac{1}{2}$	

S SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
15	42.9	5 $\frac{1}{2}$	0.625
	50.0	5 $\frac{3}{8}$	
18	54.7	6	0.688
	70.0	6 $\frac{1}{4}$	
20	66.0	6 $\frac{1}{4}$	0.813
	75.0	6 $\frac{3}{8}$	
20.3	86.0	7	0.938
	96.0	7 $\frac{1}{4}$	
24	80.0	7	0.875
	90.0	7 $\frac{1}{8}$	
	100.0	7 $\frac{1}{4}$	

## BEAM DIMENSIONS



W SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
5	19	5	0.430
6	25	6 $\frac{1}{8}$	0.455
8	18	5 $\frac{1}{4}$	0.330
	21	5 $\frac{1}{4}$	0.400
	24	6 $\frac{1}{2}$	0.400
	28	6 $\frac{1}{2}$	0.465
	31	8	0.435
	35	8	0.495
	40	8 $\frac{1}{8}$	0.560
	48	8 $\frac{1}{8}$	0.685
	58	8 $\frac{1}{4}$	0.810
	67	8 $\frac{1}{4}$	0.935
10	22	5 $\frac{3}{4}$	0.360
	26	5 $\frac{3}{4}$	0.440
	30	5 $\frac{3}{4}$	0.510
	33	8	0.435
	39	8	0.530
	45	8	0.620
	49	10	0.560
	54	10	0.615
	60	10 $\frac{1}{8}$	0.680
	68	10 $\frac{1}{8}$	0.770
77	10 $\frac{1}{4}$	0.870	
88	10 $\frac{1}{4}$	0.990	

W SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
12	26	6 $\frac{1}{2}$	0.380
	30	6 $\frac{1}{2}$	0.440
	35	6 $\frac{1}{2}$	0.520
	40	8	0.515
	45	8	0.575
	50	8 $\frac{1}{8}$	0.640
	53	10	0.575
	58	10	0.640
	65	12	0.605
	72	12	0.670
	79	12 $\frac{1}{8}$	0.735
	87	12 $\frac{1}{8}$	0.810
	96	12 $\frac{1}{8}$	0.900
	106	12 $\frac{1}{4}$	0.990

W SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
14	30	6 $\frac{3}{4}$	0.385
	34	6 $\frac{3}{4}$	0.455
	38	6 $\frac{3}{4}$	0.515
	43	8	0.530
	48	8	0.595
	53	8	0.660
	61	10	0.645
	68	10	0.720
	74	10 $\frac{1}{8}$	0.785
	82	10 $\frac{1}{8}$	0.855
	90	14 $\frac{1}{2}$	0.710
	99	14 $\frac{5}{8}$	0.780
	109	14 $\frac{5}{8}$	0.860
	120	14 $\frac{5}{8}$	0.940
132	14 $\frac{3}{4}$	1.030	
16	36	7	0.430
	40	7	0.505
	45	7	0.565
	50	7 $\frac{1}{8}$	0.63
	57	7 $\frac{1}{8}$	0.715
	67	10 $\frac{1}{4}$	0.665
	77	10 $\frac{1}{4}$	0.760
	89	10 $\frac{3}{8}$	0.875
	100	10 $\frac{3}{8}$	0.985

BEAM DIMENSIONS, CONT'D.



W SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
18	50	7½	0.570
	55	7½	0.630
	60	7½	0.695
	65	7¾	0.750
	71	7¾	0.810
	76	11	0.680
	86	11½	0.770
	97	11½	0.870
21	106	11¼	0.940
	62	8¼	0.615
	68	8¼	0.685
	73	8¼	0.740
	83	8¾	0.835
	93	8¾	0.930
	101	12¼	0.800
	111	12¾	0.875
24	122	12¾	0.960
	76	9	0.680
	84	9	0.770
	94	9½	0.875
	104	12¾	0.750
	117	12¾	0.850
131	12¾	0.960	

W SHAPES			
Nom. Size Y	Weight per Ft., lb.	Flange Width	Thick. of Flange Z
27	94	10	0.745
	102	10	0.830
	114	10½	0.930
	146	14	0.975
30	108	10½	0.760
	116	10½	0.850
	124	10½	0.930
	132	10½	1.000
33	118	11½	0.740
	130	11½	0.855
	141	11½	0.960
36	135	12	0.790
	150	12	0.940
	160	12	1.020

MAXIMUM RECOMMENDED APPLIED TORQUES

FOR SET SCREWS IN MSS TYPE 19 & 23 C-CLAMP

Thread Size	Torque Value (in. - lbs)
¼	40
⅜	60
½	125
⅝	250
¾	400
⅞	665

Extracted from MSS-SP-69

FOR FIG. 261 RISER CLAMP

Bolt Size	Torque Value (ft. - lbs)
¼	6
⅜	21
½	46
⅝	100
¾	150
⅞	190
1	280

Bolts per ASTM A307  
Nuts per ASTM A563