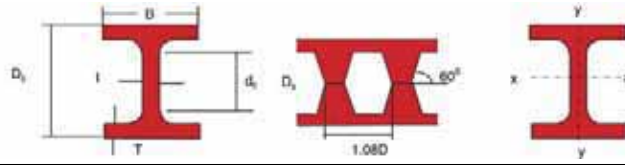


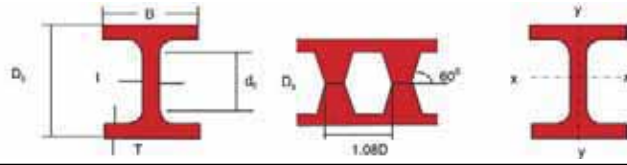
Castellated Beams



BEAMS AND COLUMNS

Section Size	Castellated Beam	Unit Weight		Section Depth	Section Width	Thickness		Depth Between Fillet	Root Radius	Pitch of standard castellated
$D_c \times B$		M		D_c	B	t	T	d_c	r	$1.08D_s$
in (mm)	in(mm)	lb/ft	kg/m	mm	mm	mm	mm	mm	mm	mm
W4-4x4 (102x102)	6x4 (153x102)	13	19.35	156.7	103.1	7.11	8.76	126.38	6.4	110
		19	28.28	194.3	127.8	6.86	10.92	157.26		137
W5-5x5 (127x127)	7 1/2 x 5 (191x127)	18	23.81	190.8	127.0	6.10	9.14	157.32	7.6	137
		19	28.28	194.3	127.8	6.86	10.92	157.26		137
		12	17.86	229.2	101.6	5.84	7.11	202.18	6.4	164
W6-6x4 (152x102)	9x4 (228x102)	9	13.39	225.9	100.1	4.32	5.46	202.18	6.4	164
		12	17.86	229.2	101.6	5.84	7.11	202.18		164
		16	23.81	235.5	102.4	6.60	10.29	202.12		164
W6-6x6 (152x152)	9x6 (228x152)	15	22.32	228.1	152.1	5.84	6.60	202.10	6.4	164
		20	29.76	233.5	152.9	6.60	9.27	202.16		164
		25	37.20	238.1	154.4	8.13	11.56	202.18		164
W8-8x4 (203x102)	12x4 (305x102)	10	14.88	301.9	100.1	4.32	5.21	276.28	7.6	219
		13	19.35	304.4	101.6	5.84	6.48	276.24		219
		15	22.32	307.5	102.0	6.22	8.00	276.30		219
W8-8x5 1/4 (203x133)	12x5 1/4 (305x133)	18	26.79	308.3	133.4	5.84	8.38	276.34	7.6	219
		21	31.25	311.8	133.9	6.35	10.16	276.28		219
W8-8x6 1/2 (203x165)	12x6 1/2 (305x165)	24	35.72	302.9	165.0	6.22	10.16	262.18	10.2	219
		28	41.67	306.2	166.0	7.24	11.81	262.18		219
W8-8x8 (203x203)	12x8 (305x203)	31	46.13	304.7	203.1	7.24	11.05	262.20	10.2	219
		35	52.09	307.7	203.7	7.87	12.57	262.16		219
		40	59.53	311.1	205.0	9.14	14.22	262.26		219
		48	71.43	317.4	206.0	10.16	17.40	262.20		219
		58	86.31	323.7	208.8	12.95	20.57	262.16		219
		67	99.71	330.1	210.3	14.48	23.75	262.20		219
W10-10x4 (254x102)	15x4 (381x102)	12	17.86	377.7	100.6	4.83	5.33	351.84	7.6	274
		15	22.32	380.7	101.6	5.84	6.86	351.78		274
		17	25.30	383.8	101.9	6.10	8.38	351.84		274
		19	28.28	387.1	102.1	6.35	10.03	351.84		274
W10-10x5 3/4 (254x146)	15x5 3/4 (381x146)	22	32.74	385.3	146.0	6.10	9.14	351.82	7.6	274
		26	38.69	389.4	146.6	6.60	11.18	351.84		274
		30	44.64	392.9	147.6	7.62	12.95	351.80		274
W10-10x8 (254x203)	15x8 (381x203)	33	49.11	374.1	202.2	7.37	11.05	326.60	12.7	274
		39	58.04	379.0	202.8	8.00	13.46	326.68		274
		45	66.97	383.5	203.7	8.89	15.75	326.60		274
W10-10x10 (254x254)	15x10 (381x254)	49	72.92	380.5	254.0	8.64	14.22	326.66	12.7	274
		54	80.36	383.3	254.8	9.40	15.62	326.66		274
		60	89.29	386.6	256.0	10.67	17.27	326.66		274
		68	101.19	391.2	257.3	11.94	19.56	326.68		274
		77	114.58	396.2	258.8	13.46	22.10	326.60		274
		88	130.95	402.3	260.7	15.37	25.15	326.60		274
		100	148.81	408.9	262.6	17.27	28.45	326.60		274
112	166.67	415.5	264.5	19.18	31.75	326.60		274		
W12-12x4 (305x102)	18x4 (458x102)	14	20.83	455.0	100.0	5.08	5.72	428.36	7.6	329
		16	23.81	457.0	101.3	5.59	6.73	428.34		329
		19	28.28	461.4	101.7	5.97	8.89	428.42		329
		22	32.74	465.2	102.4	6.60	10.80	428.40		329
W12-12x6 1/2 (305x165)	18x6 1/2 (458x165)	26	38.69	462.9	164.8	5.84	9.65	428.40	7.6	329
		30	44.64	465.9	165.6	6.60	11.18	428.34		329
		35	52.09	470.0	166.6	7.62	13.21	428.38		329

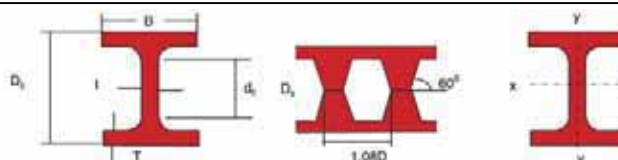
Castellated Beams



Section Size	Castellated Beam	Unit Weight		Section Depth	Section Width	Thickness		Depth Between Fillet	Root Radius	Pitch of standard castellated
		M				Web	Flange			
D _c x B				D _c	B	t	T	d _c	r	1.08D _s
in (mm)	in(mm)	lb/ft	kg/m	mm	mm	mm	mm	mm	mm	mm
W12-12x8 (305x203)	18x8 (458x203)	40	59.53	455.8	203.3	7.49	13.08	399.24	15.2	329
		45	66.97	458.8	204.3	8.51	14.60	399.20		329
		50	74.41	462.1	205.2	9.40	16.26	399.18		329
W12-12x10 (305x254)	18x10 (458x254)	53	78.87	458.8	253.9	8.76	14.60	399.20	15.2	329
		58	86.31	462.1	254.3	9.14	16.26	399.18		329
W12-12x12 (305x305)	18x12 (458x305)	65	96.73	460.3	304.8	9.91	15.37	399.16	15.2	329
		72	107.14	463.7	305.8	10.92	17.02	399.26		329
		79	117.56	467.0	306.8	11.94	18.67	399.26		329
		87	129.46	470.8	308.0	13.08	20.57	399.26		329
		96	142.86	475.3	308.9	13.97	22.86	399.18		329
		106	157.74	479.9	310.4	15.49	25.15	399.20		329
		120	178.57	485.7	312.9	18.03	28.07	399.16		329
		136	202.38	493.1	315.0	20.07	31.75	399.20		329
		152	226.19	500.7	317.0	22.10	35.56	399.18		329
		170	253.98	508.9	319.3	24.38	39.62	399.26		329
190	282.74	517.8	321.8	26.92	44.07	399.26		329		
W12*-12x12 (305x305)	18x12 (458x305)	210	312.50	526.1	324.9	29.97	48.26	399.18	15.2	329
		230	342.26	534.8	327.5	32.64	52.58	399.24		329
		252	375.00	543.9	330.3	35.43	57.15	399.20		329
		279	415.18	555.1	333.8	38.86	62.74	399.22		329
		305	453.87	567.0	336.2	41.28	68.71	399.18		329
		336	500.00	579.7	340.0	45.08	75.06	399.18		329
W14-14x5 (356x127)	21x5 (534x127)	22	32.74	527.0	127.0	5.84	8.51	489.58	10.2	385
		26	38.69	531.3	127.6	6.48	10.67	489.56		385
W14-14x63/4 (356x171)	21x63/4 (534x171)	30	44.64	529.5	170.9	6.86	9.78	489.54	10.2	385
		34	50.60	533.1	171.3	7.24	11.56	489.58		385
		38	56.55	536.1	172.0	7.87	13.08	489.54		385
W14x8 (356x203)	21x8 (534x203)	43	63.99	525.0	203.1	7.75	13.46	467.68	15.2	385
		48	71.43	528.3	204.0	8.64	15.11	467.68		385
		53	78.87	531.6	204.7	9.40	16.76	467.68		385
W14-14x10 (356x254)	21x10 (534x254)	61	90.78	530.8	253.9	9.52	16.38	467.64	15.2	385
		68	101.19	534.6	254.9	10.54	18.29	467.62		385
		74	110.12	537.9	255.8	11.43	18.94	467.62		385
		82	122.02	541.5	257.3	12.95	21.72	467.66		385
W14-14x141/2 (356x368)	21x141/2 (534x368)	90	133.93	534.1	368.8	11.18	18.03	467.64	15.2	385
		99	147.32	537.7	370.0	12.32	19.81	467.68		385
		109	162.20	541.7	371.0	13.34	21.84	467.62		385
		120	178.57	545.8	372.6	14.99	23.88	467.64		385
		132	196.43	550.4	374.0	16.38	26.16	467.68		385

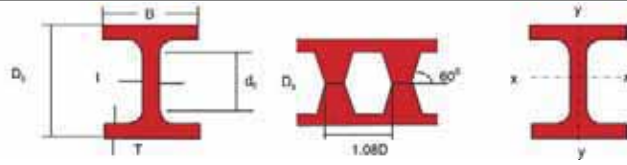
Note : * Not included in regular rolling schedule

Castellated Beams



Section Size	Castellated Beam	Unit Weight		Section Depth	Section Width	Thickness		Depth Between Fillet	Root Radius	Pitch of standard castellated
		M	M			Web	Flange			
D _c x B				D _c	B	t	T	d _c	r	1.08D _s
in (mm)	in(mm)	lb/ft	kg/m	mm	mm	mm	mm	mm	mm	mm
W16-16x5 1/2 (406x140)	24x5 1/2 (609x140)	26	38.69	601.5	139.7	6.35	8.76	563.58	10.2	438
		31	46.13	606.4	140.3	6.98	11.18	563.64		438
W16-16x7 (406x178)	24x7 (609x178)	36	53.57	605.8	177.4	7.49	10.92	563.56	10.2	438
		40	59.53	609.7	177.7	7.75	12.83	563.64		438
		45	66.97	612.7	178.7	8.76	14.35	563.64		438
		50	74.41	616.0	179.6	9.65	16.00	563.60		438
		57	84.83	620.3	180.8	10.92	18.16	563.58		438
W16-16x10 1/4 (406x260)	24x10 1/4 (609x260)	67	99.71	617.8	260.0	10.03	16.89	563.62	10.2	438
		77	114.58	622.6	261.5	11.56	19.30	563.60		438
		89	132.44	628.4	263.3	13.33	22.22	563.56		438
		100	148.81	634.0	264.8	14.86	25.02	563.56		438
W18-18x6 (457x152)	27x6 (686x152)	35	52.09	678.1	152.4	7.62	10.80	636.10	10.2	494
		40	59.53	683.2	152.8	8.00	13.34	636.12		494
		46	68.46	687.2	153.9	9.14	15.37	636.06		494
W18-18x7 1/2 (457x191)	27x7 1/2 (686x191)	50	74.41	685.4	190.4	9.02	14.48	636.04	10.2	494
		55	81.85	688.5	191.3	9.91	16.00	636.10		494
		60	89.29	691.8	191.9	10.54	17.65	636.10		494
		65	96.73	694.6	192.8	11.43	19.05	636.10		494
		71	105.65	697.6	193.9	12.57	20.57	636.06		494
W18-18x11 (457x279)	27x11 (686x279)	76	113.10	691.0	280.3	10.80	17.27	636.06	10.2	494
		86	127.98	695.6	281.7	12.19	19.56	636.08		494
		97	144.35	700.7	283.1	13.59	22.10	636.10		494
		106	157.74	704.2	284.5	14.99	23.88	636.04		494
		119	177.08	710.3	286.1	16.64	26.92	636.06		494
W21-21x6 1/2 (533x165)	31 1/2x6 1/2 (800x165)	44	65.48	791.3	165.1	8.89	11.43	743.04	12.7	576
		50	74.41	795.6	165.9	9.65	13.58	743.02		576
		57	84.83	801.4	166.5	10.29	16.51	742.98		576
W21-21x8 1/4 (533x210)	31 1/2x8 1/4 (800x210)	62	92.26	799.6	209.3	10.16	15.62	742.96	12.7	576
		68	101.19	803.2	210.1	10.92	17.40	743.00		576
		73	108.63	806.0	210.7	11.56	18.80	743.00		576
		83	123.51	810.8	212.2	13.08	21.21	742.98		576
		93	138.39	815.6	213.9	14.73	23.62	742.96		576
W21-21x12 1/4 (533x312)	31 1/2x12 1/4 (800x312)	101	150.30	809.0	312.2	12.70	20.32	742.96	12.7	576
		111	165.18	812.9	313.4	13.97	22.22	743.06		576
		122	181.55	817.2	314.7	15.24	24.38	743.04		576
		132	196.43	821.0	316.0	16.51	26.29	743.02		576
		147	218.75	826.8	317.8	18.29	29.21	742.98		576
W24-24x7 (610x178)	36x7 (915x178)	55	81.85	903.7	177.9	10.03	12.83	852.64	12.7	659
		62	92.27	908.0	178.8	10.92	14.99	852.62		659
W24-24x9 (610x229)	36x9 (915x229)	68	101.19	907.7	227.7	10.54	14.86	852.58	12.7	659
		76	113.10	912.6	228.3	11.18	17.27	852.66		659
		84	125.00	917.1	229.1	11.94	19.56	852.58		659
		94	139.88	922.5	230.3	13.08	22.22	852.66		659
W24-24x12 3/4 (610x324)	36x12 3/4 (915x324)	104	154.76	916.1	323.8	12.70	19.05	852.60	12.7	659
		117	174.11	921.1	325.1	13.97	21.59	852.62		659
		131	194.44	926.8	326.5	15.37	24.38	852.64		659
		146	217.27	933.4	327.7	16.51	27.69	852.62		659
		162	241.07	940.0	329.1	17.91	30.99	852.62		659
W27-27x10 (686x254)	40 1/2x10 (1029x254)	84	125.00	1021.4	253.0	11.68	16.26	958.48	15.2	741
		94	139.88	1026.8	253.7	12.45	18.92	958.56		741
		102	151.78	1031.1	254.4	13.08	21.08	958.54		741
		114	169.64	1036.4	255.8	14.48	23.62	958.56		741

Castellated Beams



Section Size	Castellated Beam	Unit Weight		Section Depth	Section Width	Thickness		Depth Between Fillet	Root Radius	Pitch of standard castellated
		M				Web	Flange			
D _c x B				D _c	B	t	T	d _c	r	1.08D _s
in (mm)	in(mm)	lb/ft	kg/m	mm	mm	mm	mm	mm	mm	mm
W27*-27x14 (686x356)	401/2x14 (1029x366)	146	217.26	1038.5	354.7	15.37	24.76	958.58	15.2	741
		161	239.58	1043.8	356.1	16.76	27.43	958.54		741
		178	264.88	1049.4	357.8	18.42	30.23	958.54		741
W30-30x101/2 (762x267)	45x101/2 (1143x267)	99	147.32	1134.4	265.4	13.21	17.02	1067.06	16.5	823
		108	160.71	1138.7	266.1	13.84	19.30	1067.10		823
		116	172.62	1143.3	266.6	14.35	21.59	1067.12		823
		124	184.52	1147.3	267.1	14.86	23.62	1067.06		823
		132	196.43	1150.9	267.8	15.62	25.40	1067.10		823
W30*-30x15 (762x381)	45x15 (1143x381)	173	257.44	1154.2	380.6	16.64	27.05	1067.10	16.5	823
		191	284.23	1160.2	382.0	18.03	30.10	1067.00		823
		211	313.99	1166.9	383.7	19.68	33.40	1067.10		823
W33-33x111/2 (838x292)	491/2x111/2 (1257x292)	118	175.60	1253.6	291.6	13.97	18.80	1180.40	17.8	905
		130	193.45	1259.5	292.4	14.73	21.72	1180.46		905
		141	209.82	1264.8	293.0	15.37	24.38	1180.44		905
		152	226.19	1269.6	293.8	16.13	26.80	1180.40		905
W33*-33x151/4 (838x400)	491/2x153/4 (1257x400)	201	299.11	1274.5	399.9	18.16	29.21	1180.48	17.8	905
		221	328.87	1280.8	401.4	19.68	32.38	1180.44		905
		241	358.63	1287.2	402.8	21.08	35.56	1180.48		905
W36-36x12 (914x305)	54x12 (1371x305)	135	200.89	1360.0	303.5	15.24	20.07	1281.86	19.0	987
		150	223.21	1367.6	304.2	15.88	23.88	1281.84		987
		160	238.10	1371.7	304.8	16.51	25.91	1281.88		987
		170	253.98	1375.7	305.6	17.27	27.94	1281.82		987
		182	270.83	1379.8	306.7	18.42	29.97	1281.86		987
		194	288.69	1383.8	307.7	19.43	32.00	1281.80		987
W36*-36x161/2 (914x419)	54x161/2 (1371x419)	230	342.26	1368.9	418.3	19.30	32.00	1256.70	24.1	987
		245	364.58	1373.4	419.4	20.32	34.29	1256.62		987
		260	386.90	1378.0	420.4	21.34	36.58	1256.64		987
		280	416.67	1384.6	421.5	22.48	39.88	1256.64		987
		300	446.43	1390.2	423.0	24.00	42.67	1256.66		987

Note : * Not included in regular rolling schedule

