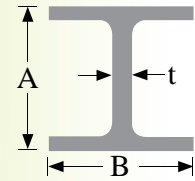


BEAMS



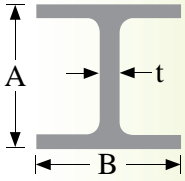
UNIVERSAL BEAMS & COLUMNS (Imperial Units)

Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
	mm	ib/ft	kg/m	mm	mm	mm
W4 4 x 4 (102 x 102)	13	19.35	105.7	103.1	8.76	7.11
W5 5 x 3 (127 x 76)	9	13.00	127.0	76.2	7.60	4.20
W5 5 x 5 (127 x 127)	16	23.81	127.3	127.0	9.14	6.10
	19	28.28	130.8	127.8	10.90	6.86
W6 6 x 3½ (152 x 89)	11	16.00	152.4	88.9	7.70	4.60
W6 6 x 4 (152 x 102)	9	13.39	149.9	100.1	5.46	4.32
	12	17.86	153.2	101.6	7.11	5.84
	16	23.81	159.5	102.4	10.20	6.60
W6 6 x 6 (152 x 152)	15	22.50	152.1	152.1	6.60	5.84
	15.7	23.00	152.4	152.4	6.80	6.10
	20	30.00	157.5	152.9	9.27	6.60
	25	37.20	162.1	154.4	11.50	8.13
W7 7 x 4 (178 x 102)	13	19.00	177.8	101.6	7.90	4.70
W8 8 x 4 (203 x 102)	10	14.88	200.4	100.1	5.21	4.32
	13	19.35	202.9	101.6	6.48	5.84
	15	22.32	206.0	102.0	8.00	6.22
	15.5	23.00	203.2	101.6	9.30	5.20
W8 8x 5¼ (203 x 133)	17	25.30	203.2	133.4	7.80	5.84
	18	26.79	206.8	133.3	8.38	5.84
	20	30.00	206.8	133.8	9.60	6.30
	21	31.30	210.3	133.9	10.10	6.35
W8 8 x 6½ (203 x 165)	24	35.72	201.4	165.0	10.10	6.22
	28	41.67	204.7	166.0	11.80	7.24
W8 8 x 8 (203 x 203)	31	46.13	203.2	203.1	11.00	7.24
	35	52.09	206.2	203.7	12.50	7.87
	40	60.00	209.5	205.0	14.20	9.14
	48	71.43	215.9	206.0	17.40	10.16
	58	86.31	222.2	208.8	20.57	12.95
	67	100.0	228.6	210.3	23.75	14.48
W10 10 x 4 (254 x 102)	12	17.86	250.7	100.6	5.33	4.83
	15	22.32	253.7	101.6	6.86	5.84
	17	25.30	256.8	101.9	8.38	6.10
	19	28.28	260.1	102.1	10.00	6.35
W10 10 x 5¼ (254 x 146)	21	31.25	251.5	146.1	8.60	6.10
	22	32.74	258.3	146.0	9.14	6.10
	25	37.20	256.0	146.4	10.90	6.40
	26	38.69	262.4	146.6	11.10	6.60
	29	43.00	259.6	147.3	12.70	7.30

IMPERIAL UNIT

15 BEAMS

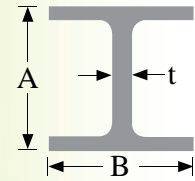
BEAMS



IMPERIAL UNIT

UNIVERSAL BEAMS & COLUMNS (Imperial Units)						
Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
mm	ib/ft	kg/m	A	B	T	t
			mm	mm	mm	mm
W10 10 x 5 ³ / ₄ (254 x 146)	30	44.80	265.9	147.8	12.90	7.62
W10 10 x 8 (254x 203)	33	49.11	247.1	202.2	11.00	7.37
	39	58.04	252.0	202.8	13.40	8.00
	45	66.97	256.5	203.7	15.70	8.89
W10 10 x 10 (254 x 254)	49	73.00	253.5	254.0	14.20	8.64
	54	80.36	256.3	254.8	15.60	9.40
	60	89.29	259.6	256.0	17.27	10.67
	68	101.2	264.2	257.3	19.56	11.94
	72	107.0	266.7	258.3	20.50	13.00
	77	115.0	269.2	258.8	22.10	13.46
	88	131.0	275.3	260.7	25.15	15.37
	89	132.0	276.4	261.0	25.30	15.60
	100	149.0	282.2	262.6	28.45	17.27
W12 12 x 4 (305 x 102)	14	20.83	302.5	100.8	5.71	5.08
	16	23.81	304.5	101.3	6.73	5.59
	16.5	25.00	304.8	101.6	6.80	5.80
	19	28.28	308.9	101.7	8.89	5.97
	22	33.00	312.7	102.4	10.80	6.60
W12 12x 5 (305 x 127)	25	37.00	303.8	123.5	10.70	7.20
	28	42.00	306.6	124.3	12.10	8.00
	32	48.00	310.4	125.2	14.00	8.90
W12 12 x 6 ¹ / ₂ (305 x 165)	26	38.70	310.4	164.8	9.65	5.84
	27	40.00	303.8	165.1	10.20	6.10
	30	44.64	313.4	165.6	11.10	6.60
	31	46.00	307.1	165.7	11.80	6.70
	35	52.09	317.5	166.6	13.20	7.62
	36	54.00	310.9	166.8	13.70	7.70
W12 12 x 8 (305 x 203)	40	59.53	303.3	203.3	13.00	7.49
	45	66.97	306.3	204.3	14.60	8.51
	50	74.41	309.6	205.2	16.20	9.40
W12 12x 10 (305 x 254)	53	78.87	306.3	253.9	14.60	8.76
	58	86.31	309.6	254.3	16.20	9.14
W12 12 x 12 (305 x 305)	65	97.0	307.8	304.8	15.30	9.91
	72	107.1	311.1	305.8	17.02	10.92
	79	118.0	314.5	306.8	18.67	11.94
	87	129.5	318.3	308.0	20.57	13.08
	92	137.0	320.4	308.7	21.70	13.80

BEAMS 16



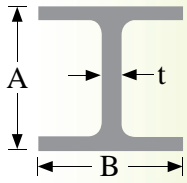
UNIVERSAL BEAMS & COLUMNS (Imperial Units)

Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
	mm	ib/ft	kg/m	A	B	T
W12 12 x 12 (305 x 305)	96	143.0	322.8	308.9	22.86	13.97
	106	158.0	327.4	310.4	25.15	15.49
	120	179.0	333.2	312.9	28.07	18.03
	133	198.0	339.9	314.1	31.40	19.20
	136	202.4	340.6	315.0	31.75	20.07
	152	226.2	348.2	317.0	35.56	22.10
	161	240.0	352.6	317.9	37.70	23.00
	170	253.0	356.4	319.3	39.62	24.38
	190	283.0	365.3	321.8	44.07	26.92
	210	312.5	373.6	324.9	48.26	29.97
	230	342.3	382.3	327.5	52.58	32.64
	252	375.0	391.4	330.3	57.15	35.43
	278	413.7	402.6	333.8	62.74	38.86
	305	453.9	414.5	336.2	68.71	41.27
W14 14 x 5 (356 x 127)	22	33.0	349.0	127.0	8.51	5.84
	26	39.0	353.3	127.6	10.60	6.48
W14 14 x 6¾ (356 x 171)	30	45.0	351.5	170.9	9.78	6.86
	34	51.0	355.1	171.3	11.5	7.24
	38	57.0	358.1	172.0	13.0	7.87
	45	67.0	364.0	173.2	15.7	9.10
W14 14 x 8 (356 x 203)	43	63.99	347.0	203.1	13.4	7.75
	48	71.43	350.3	204.0	15.1	8.64
	53	78.87	353.6	204.7	16.7	9.40
W14 14 x 10 (356 x 254)	61	90.78	352.8	253.9	16.30	9.52
	68	101.2	356.6	254.9	18.36	10.54
	74	110.1	359.9	255.8	19.94	11.43
	82	122.0	363.5	257.3	21.72	12.95
W14 14 x 14½ (356 x 356)	87	129.0	355.6	368.3	17.50	10.70
	90	134.0	356.1	368.8	18.03	11.18
	99	147.3	359.7	370.0	19.81	12.32
	103	153.0	362.0	370.2	20.70	12.60
	109	162.2	363.7	371.0	21.84	13.33
	119	177.0	368.3	372.1	23.80	14.50
	120	179.0	367.8	372.6	23.88	14.99
	132	196.4	372.4	374.0	26.16	16.38
136	202.0	374.7	374.4	27.00	16.80	

IMPERIAL UNIT

17 BEAMS

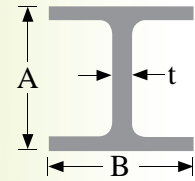
BEAMS



IMPERIAL UNIT

BEAMS 18

UNIVERSAL BEAMS & COLUMNS (Imperial Units)						
Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
	mm	ib/ft	kg/m	A	B	T
W16 14 x 16 (356 x 406)	145	216.0	375.4	393.7	27.69	17.27
	158	235.0	381.0	395.0	30.20	18.50
	159	237.0	380.5	395.4	30.23	18.92
	176	262.0	386.6	397.5	33.27	21.08
	193	287.2	393.2	399.0	36.58	22.61
	211	314.0	399.3	401.3	39.62	24.89
	228	340.0	406.4	403.0	42.90	26.50
	233	347.0	407.4	403.6	43.69	27.18
	257	382.5	416.1	406.3	48.01	29.84
	264	393.0	419.1	407.0	49.20	30.60
	283	421.1	425.2	409.2	52.58	32.77
	311	463.0	434.8	412.2	57.40	35.81
	314	467.0	436.6	412.4	58.00	35.90
	342	509.0	445.5	415.5	62.74	39.12
	370	551.0	455.2	418.5	67.56	42.04
	398	592.3	464.6	421.4	72.26	44.96
	426	634.0	474.2	424.1	77.09	47.62
	455	677.1	483.1	427.6	81.53	51.18
	500	744.1	497.8	432.1	88.90	55.63
	W14 16 x 5½ (406 x 140)	26	39.0	398.5	139.7	8.76
31		46.13	403.4	140.3	11.1	6.98
W16 16 x 7 (406 x 178)	36	54.0	402.8	177.4	10.90	7.49
	40	60.0	406.7	177.7	12.80	7.75
	45	67.0	409.7	178.7	14.30	8.76
	50	74.41	413.0	179.6	16.00	9.65
	57	85.0	417.3	180.8	18.16	10.92
W16 16 x 10¼ (406 x 260)	67	99.71	414.8	260.0	16.89	10.03
	77	114.6	419.6	261.5	19.30	11.56
	89	132.4	425.4	263.3	22.22	13.33
	100	148.8	431.0	264.8	25.02	14.86
W18 18 x 6 (457 x 152)	35	52.09	449.6	152.4	10.80	7.62
	40	60.00	454.7	152.8	13.30	8.00
	45	67.00	457.2	151.9	15.00	9.10
	46	68.46	458.7	153.9	15.30	9.14



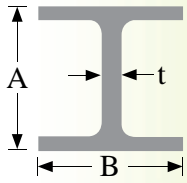
UNIVERSAL BEAMS & COLUMNS (Imperial Units)

Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
	mm	ib/ft	kg/m	mm	mm	mm
W18 18 x 6 (457 x 152)	50	74.00	461.3	152.7	17.00	9.90
	55	82.00	465.1	153.5	18.90	10.70
W18 18 x 7½ (457 x 191)	45	67.0	453.6	189.9	12.70	8.50
	50	74.41	456.9	190.4	14.40	9.02
	55	82.0	460.0	191.3	16.00	9.91
	60	89.29	463.3	191.9	17.65	10.54
	65	97.0	466.1	192.8	19.05	11.43
	66	98.0	467.4	192.8	19.60	11.40
W18 18 x 11 (457 x 279)	71	106.0	469.1	193.9	20.57	12.57
	76	113.1	462.5	280.3	17.27	10.80
	86	128.0	467.1	281.7	19.56	12.19
	97	144.4	472.2	283.1	22.10	13.59
	106	157.7	475.7	284.5	23.88	14.99
W21 21 x 6½ (533 x 165)	119	177.1	481.8	286.1	26.92	16.64
	44	66.0	524.8	165.1	11.40	8.89
	50	74.41	529.1	165.9	13.50	9.65
W21 21 x 8¼ (533 x 210)	57	85.0	534.9	166.5	16.51	10.29
	55	82.0	528.3	208.7	13.20	9.60
	62	92.27	533.1	209.3	15.62	10.16
	68	101.2	536.7	210.1	17.40	10.92
	73	109.0	539.5	210.7	18.80	11.56
	82	122.0	544.6	211.9	21.30	12.80
	83	123.5	544.3	212.2	21.21	13.08
W21 21 x 12¼ (533 x 311)	93	138.4	549.1	213.9	23.62	14.73
	101	150.3	542.5	312.2	20.32	12.70
	111	165.2	546.4	313.4	22.22	13.97
	122	181.6	550.7	314.7	24.38	15.24
	132	196.4	554.5	316.0	26.29	16.51
W24 24 x 7 (610 x 178)	147	218.8	560.3	317.8	29.21	18.29
	55	82	598.7	177.9	12.83	10.03
	61	91	602.5	178.4	15.00	10.60
W24 24 x 9 (610 x 229)	62	92.27	603.0	178.8	14.99	10.92
	68	101.2	602.7	227.7	14.86	10.54
	76	113.1	607.6	228.3	17.27	11.18
	84	125	612.1	229.1	19.56	11.94
	94	140	617.5	230.2	22.22	13.08

IMPERIAL UNIT

19 BEAMS

BEAMS



IMPERIAL UNIT

UNIVERSAL BEAMS & COLUMNS (Imperial Units)						
Designation Size	Unit Weight		Depth Of Section	Width Of Section	Thickness	
	M				Flange	Web
mm	ib/ft	kg/m	A	B	T	t
W24 24 x 12 (610 x 305)	100	149	609.6	304.8	19.70	11.90
	120	179	617.5	307.0	23.60	14.10
	160	238	633.0	311.5	31.40	18.60
W24 24 x 12 ³ / ₄ (610 x 324)	104	154.8	611.1	323.8	19.05	12.70
	117	174.1	616.2	325.1	21.59	13.97
	131	194.9	621.8	326.5	24.38	15.37
	146	217.3	628.4	327.7	27.69	16.51
	162	241.1	635.0	329.1	30.99	17.91
W27 27 x 10 (686 x 254)	84	125	678.4	253.0	16.26	11.68
	94	140	683.8	253.7	18.92	12.45
	102	152	688.1	254.4	21.08	13.08
	114	170	693.2	255.8	23.62	14.48
W27 27 x 14 (686 x 356)	146	217.3	695.5	354.7	24.76	15.37
	161	239.6	700.8	356.1	27.43	16.76
	178	264.9	706.4	357.8	30.23	18.41
W30 30 x 10 ¹ / ₂ (762 x 267)	99	147.3	753.1	265.4	17.02	13.21
	108	161	757.7	266.1	19.30	13.84
	116	173	762.3	266.6	21.59	14.35
	124	185	766.3	267.1	23.62	14.86
	132	197	769.9	267.8	25.40	15.62
W30 30 x 15 (762 x 381)	173	257.5	773.2	380.6	27.05	16.64
	191	284.2	779.3	382.0	30.10	18.03
	211	314	785.9	383.7	33.40	19.68
W33 33 x 11 ¹ / ₂ (838 x 292)	118	176	834.6	291.6	18.80	13.97
	130	194	840.5	292.4	21.72	14.73
	141	210	845.8	293.0	24.38	15.37
	152	226.2	850.6	293.8	26.80	16.13
W33 33 x 15 ³ / ₄ (838 x 400)	201	299.1	855.5	399.9	29.21	18.16
	221	328.9	861.8	401.4	32.38	19.68
	241	358.6	868.2	402.8	35.56	21.08
W36 36 x 12 (914 x 305)	135	201	903.0	303.5	20.07	15.24
	150	224	910.6	304.2	23.88	15.87
	160	238.1	914.7	304.8	25.91	16.51
	170	253	918.7	305.6	27.94	17.27
	182	271	922.8	306.7	29.97	18.41
	194	289	926.8	307.7	32.00	19.43
	210	313	931.9	309.4	34.54	21.08

BEAMS 20