



Theoretical Weights Table

Size	Weight		Area	Web	Flange		Web thickness
	lb/ft	kg/m	A in 2	d in	b in	tf in	tw in
W6 (6 X 4)	8.5	12.6	2.52	5.83	3.94	0.18	0.17
	9	13.39	2.68	5.90	3.94	0.215	0.170
	12	17.86	3.55	6.03	4.00	0.280	0.230
	16	23.81	4.74	6.28	4.03	0.405	0.260
W6 (6 X 6)	15	22.35	4.43	5.99	5.99	0.260	0.230
	20	29.80	5.87	6.20	6.02	0.370	0.260
	25	37.20	7.34	6.38	6.08	0.460	0.320
W8 (8X4)	10	14.88	2.96	7.89	3.94	0.205	0.170
	13	19.34	3.84	7.99	4.00	0.255	0.230
	15	22.32	4.44	8.11	4.02	0.315	0.245
W8 (8X5 1/4)	18	26.78	5.26	8.14	5.25	0.330	0.230
	21	31.25	6.16	8.28	5.27	0.400	0.250
W8 (8X6 1/2)	24	35.72	7.08	7.93	6.50	0.400	0.250
	28	41.72	8.28	8.06	6.54	0.470	0.290
W8 (8 X 8)	31	46.19	9.13	8.00	7.99	0.435	0.285
	35	52.20	10.30	8.12	8.02	0.495	0.310
	40	59.58	11.70	8.25	8.07	0.560	0.360
	*48	71.40	14.10	8.50	8.11	0.690	0.400
	*58	86.30	17.10	8.75	8.22	0.810	0.510
	*67	99.79	19.70	9.02	8.28	0.935	0.570
W10 (10X4)	12	17.86	3.54	9.87	3.96	0.210	0.190
	15	22.32	4.41	9.99	4.00	0.270	0.230
	17	25.30	4.99	10.11	4.01	0.330	0.240
	19	28.27	5.62	10.24	4.02	0.395	0.250
W10 (10X5 3/4)	22	32.74	6.49	10.17	5.75	0.360	0.240
	26	38.69	7.61	10.33	5.77	0.440	0.260
	30	44.64	8.84	10.47	5.81	0.510	0.300
W10 (10X8)	33	49.10	9.71	9.73	7.96	0.435	0.290
	39	58.10	11.50	9.92	7.99	0.530	0.315
	45	67.02	13.30	10.10	8.02	0.620	0.350
W10 (10X10)	49	73.00	14.40	9.98	10.00	0.560	0.340
	54	80.50	15.80	10.09	10.03	0.615	0.370
	60	89.30	17.60	10.22	10.08	0.680	0.420
W12 (12X4)	14	20.83	4.16	11.91	3.97	0.225	0.200
	16	23.81	4.71	11.99	3.99	0.265	0.220
	19	28.27	5.57	12.16	4.01	0.350	0.235
	22	32.74	6.48	12.31	4.03	0.425	0.260
W12 (12X6 1/2)	26	38.73	7.65	12.22	6.49	0.380	0.230
	30	44.64	8.79	12.34	6.52	0.440	0.260
	35	52.08	10.30	12.50	6.56	0.520	0.300
W12 (12X8)	40	59.52	11.80	11.94	8.01	0.515	0.295
	45	66.96	13.20	12.06	8.05	0.575	0.335
	50	74.40	14.70	12.19	8.08	0.640	0.370
W12 (12X10)	53	79.00	15.60	12.06	10.00	0.575	0.345
	58	86.39	17.00	12.19	10.01	0.640	0.360
	65	96.85	19.10	12.12	12.00	0.605	0.390
W12 (12X12)	72	107.00	21.10	12.25	12.04	0.670	0.430
	79	118.00	23.20	12.38	12.08	0.740	0.470
	87	129.00	25.60	12.53	12.13	0.810	0.520
	*96	143.00	28.20	12.71	12.16	0.900	0.550
W14 (14X5)	22	32.76	6.49	13.74	5.00	0.340	0.230
	26	38.72	7.69	13.91	5.03	0.420	0.260
W14(14X6 3/4)	30	44.64	8.85	13.84	6.73	0.385	0.270
	34	50.59	10.00	13.98	6.75	0.455	0.285
	38	56.54	11.20	14.10	6.77	0.515	0.310
W14 (14X8)	43	63.98	12.60	13.66	8.00	0.530	0.305
	48	71.42	14.10	13.79	8.03	0.595	0.340
	53	78.68	15.60	13.92	8.06	0.660	0.370
	61	90.80	17.90	13.89	10.00	0.650	0.380
W14 (14X10)	68	101.00	20.00	14.04	10.04	0.720	0.420
	74	110.22	21.80	14.17	10.07	0.785	0.450
	82	122.00	24.10	14.31	10.13	0.860	0.510
	90	133.90	26.50	14.02	14.52	0.710	0.440
W14 (14X14 1/2)	*99	148.00	29.10	14.16	14.57	0.780	0.485
	*109	162.20	32.00	14.32	14.61	0.860	0.530
	*120	178.60	35.30	14.48	14.67	0.940	0.590
	*132	196.40	38.80	14.66	14.73	1.030	0.650
W16 (16X5 1/2)	26	38.70	7.68	15.69	5.50	0.350	0.250
	31	46.14	9.12	15.88	5.53	0.440	0.280
W16 (16X7)	36	53.57	10.60	15.86	6.99	0.430	0.295
	40	59.52	11.80	16.01	7.00	0.505	0.305
	45	67.02	13.30	16.13	7.04	0.565	0.345
	50	74.40	14.70	16.26	7.07	0.630	0.380
	57	84.82	16.80	16.43	7.12	0.715	0.430
	67	99.73	19.70	16.33	10.24	0.670	0.400
W16 (16X10 1/4)	77	114.69	22.60	16.52	10.30	0.760	0.455
	89	132.56	26.20	16.75	10.37	0.875	0.525
W18 (18X6)	35	52.10	10.30	17.70	6.00	0.430	0.300
	40	59.54	11.80	17.90	6.02	0.530	0.320
	46	68.08	13.50	18.06	6.06	0.610	0.360
W18 (18 X 7 1/2)	50	74.40	14.70	17.99	7.50	0.570	0.355
	55	81.84	16.20	18.11	7.53	0.630	0.390
	60	89.28	17.60	18.24	7.56	0.695	0.415
	65	96.72	19.10	18.35	7.59	0.750	0.450
	71	105.65	20.80	18.47	7.64	0.810	0.495
	76	113.20	22.30	18.21	11.04	0.680	0.425
W18 (18X11)	86	128.09	25.30	18.39	11.09	0.770	0.480
	97	144.48	28.50	18.59	11.15	0.870	0.535
	106	157.88	31.10	18.73	11.20	0.940	0.590
	119	177.25	35.10	18.97	11.27	1.060	0.655
	*130	193.00	38.20	19.25	11.16	1.200	0.670
	143	213.00	42.10	19.49	11.22	1.320	0.730
	147	218.96	43.20	22.06	12.51	1.150	0.720
W21 (21X6 1/2)	44	65.50	13.00	20.66	6.50	0.450	0.350
	50	74.40	14.70	20.83	6.53	0.540	0.380
	57	84.90	16.70	21.06	6.56	0.650	0.405
W21 (21X8 1/4)	62	92.70	18.30	20.99	8.24	0.620	0.400
	68	101.30	20.00	21.13	8.27	0.690	0.430
	73	108.73	21.50	21.24	8.30	0.740	0.455
	83	123.62	24.30	21.43	8.36	0.835	0.515
	93	138.00	27.30	21.62	8.42	0.930	0.580
W21 (21X12 1/4)	*101	150.44	29.80	21.36	12.29	0.800	0.500
	*111	165.33	32.70	21.51	12.34	0.875	0.550
	*122	182.00	35.90	21.68	12.44	0.960	0.600
	132	196.00	38.80	21.83	12.44	1.040	0.650
	147	218.96	43.20	22.06	12.51	1.150	0.720
W24 (24X7)	55	81.93	16.20	23.57	7.01	0.505	0.395
	62	92.00	18.20	23.74	7.04	0.590	0.430
W24 (24X9)	68	101.20	20.10	23.73	8.97	0.590	0.420
	76	113.40	22.40	23.92	8.99	0.680	0.440
	84	125.12	24.70	24.10	9.02	0.770	0.470
	94	139.92	27.70	24.31	9.07	0.880	0.520
	103	153.00	30.30	24.53	9.00	0.980	0.550
W24 (24X12 3/4)	104	154.90	30.60	24.06	12.75	0.750	0.500
	*117	174.00	35.09	24.25	12.80	0.850	0.550
	*131	195.12	38.50	24.48	12.86	0.960	0.605
	*146	217.46	43.00	24.74	12.90	1.090	0.650
	*162	241.29	47.70	25.00	12.96	1.220	0.705
W27 (27X10)	84	125.60	24.80	26.71	9.96	0.640	0.460
	94	140.01	27.70	26.92	9.99	0.745	0.490
W30 (30X10 1/2)	*90	133	26.40	29.53	10.40	0.610	0.470
	*99	147	29.10	29.65	10.45	0.670	0.520
	*108	161	31.70	29.83	10.48	0.760	0.545
	*116	173	34.20	30.01	10.50	0.850	0.565
	132	196	38.90	30.31	10.55	1.000	0.615
W33 (33X11 1/2)	148	220	43.50	30.67	10.48	1.180	0.650
	118	175.7	34.70	32.86	11.48	0.740	0.550
	130	193.64	38.30	33.09	11.51	0.855	0.580
W33 (33X16)	141	210.02	41.60	33.30	11.54	0.960	0.605
	152	226.40	44.70	33.49	11.57	1.055	0.635
	241	358.97	70.90	34.18	15.86	1.400	0.830
W36 (36X12)	135	201.08	39.70	35.55	11.95	0.790	0.600
	150	223.43	44.20	35.85	11.98	0.940	0.625
	170	253.22	50.00	36.17	12.03	1.100	0.680
	194	289.00	57.00	36.49	12.12	1.260	0.760
	232	345.00	68.10	37.12	12.12	1.570	0.870

