



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
W8 (8X5 1/4)	15	22.32	4.44	8.11	4.02	0.315	0.245
	18	26.78	5.26	8.14	5.25	0.330	0.230
W8 (8X6 1/2)	21	31.25	6.16	8.28	5.27	0.400	0.250
	24	35.72	7.08	7.93	6.50	0.400	0.250
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
W12 (12X12)	65	96.85	19.10	12.12	12.00	0.605	0.390
	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
W14 (14X10)	61	90.80	17.90	13.89	10.00	0.650	0.380
	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
W14 (14X14 1/2)	90	133.90	26.50	14.02	14.52	0.710	0.440
	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
W16 (16X10 1/4)	67	99.73	19.70	16.33	10.24	0.670	0.400
	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
W18 (18X11)	76	113.20	22.30	18.21	11.04	0.680	0.425
	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
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)	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
	148	220	43.50	30.67	10.48	1.180	0.650
W33 (33X11 1/2)	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
	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
W33 (33X16)	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	12.11	1.260	0.760
	232	345.00	68.10	37.12	12.12	1.570	0.870

