

Structural sections – metric

in accordance with ASTM specifications



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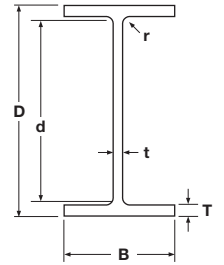
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Please note that an Imperial version is also available.

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

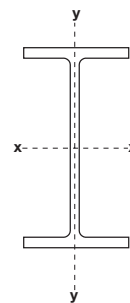
Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
W40 x 12	327	† 1016x305x486	486	1036	308	30.0	54.1	30.0	868	2.85	28.9	1020100	26590
W40 x 12	294	† 1016x305x438	438	1026	305	26.9	49.0	30.0	868	3.11	32.2	911000	23490
W40 x 12	264	† 1016x305x393	393	1016	303	24.4	43.9	30.0	868	3.45	35.6	807700	20500
W40 x 12	235	† 1016x305x350	350	1008	302	21.1	40.0	30.0	868	3.78	41.1	723900	18530
W40 x 12	211	† 1016x305x314	314	1000	300	19.1	35.9	30.0	868	4.18	45.5	644200	16230
W40 x 12	183	† 1016x305x272	272	990	300	16.5	31.0	30.0	868	4.84	52.6	554000	14000
W40 x 12	167	† 1016x305x249	249	980	300	16.5	26.0	30.0	868	5.77	52.6	481300	11750
W40 x 12	149	† 1016x305x222	222	970	300	16.0	21.1	30.0	868	7.11	54.3	408000	9546
# W36 x 16 1/2	359	† 914x419x534	534	950	425	28.4	51.1	24.1	800	4.16	28.2	1031100	65510
# W36 x 16 1/2	328	† 914x419x488	488	942	422	25.9	47.0	24.1	800	4.49	30.9	936400	59180
# W36 x 16 1/2	300	† 914x419x447	447	933	423	24.0	42.7	24.1	800	4.95	33.3	847100	53940
# W36 x 16 1/2	280	† 914x419x418	418	928	422	22.5	39.9	24.1	800	5.29	35.6	787600	50070
# W36 x 16 1/2	260	914x419x388	388	921	421	21.3	36.6	24.1	800	5.75	37.5	719700	45570
# W36 x 16 1/2	245	† 914x419x365	365	916	419	20.3	34.3	24.1	800	6.11	39.4	671600	42240
# W36 x 16 1/2	230	914x419x343	343	912	419	19.3	32.0	24.1	800	6.54	41.4	625300	39150
W36 x 16 1/2	361		537	965	425	28.4	51.1	24.1	815	4.16	28.7	1068900	65560
W36 x 16 1/2	330		491	957	422	25.9	47.0	24.1	815	4.49	31.5	969700	59010
W36 x 16 1/2	302		449	948	423	24.0	42.7	24.1	815	4.96	34.0	877300	53890
W36 x 16 1/2	282		420	943	422	22.5	39.9	24.1	815	5.29	36.2	815800	49950
W36 x 16 1/2	262		390	936	420	21.3	36.6	24.1	815	5.74	38.2	745100	45280
W36 x 16 1/2	247		368	931	419	20.3	34.3	24.1	815	6.11	40.1	697400	42290
W36 x 16 1/2	231		345	927	418	19.3	32.0	24.1	815	6.54	42.2	648000	38990
# W36 x 12	387	† 914x305x576	576	993	322	36.1	65.0	19.1	825	2.47	22.8	1101300	36470
# W36 x 12	350	† 914x305x521	521	981	319	33.0	58.9	19.1	825	2.71	25.0	981300	32080
# W36 x 12	318	† 914x305x474	474	971	316	30.0	54.1	19.1	825	2.92	27.5	885100	28580
# W36 x 12	286	† 914x305x425	425	961	313	26.9	49.0	19.1	825	3.19	30.7	787600	25140
W36 x 12	256	† 914x305x381	381	951	310	24.4	43.9	19.1	825	3.53	33.8	696300	21910
W36 x 12	232	† 914x305x345	345	943	308	22.1	39.9	19.1	825	3.86	37.3	625300	19500
W36 x 12	210	† 914x305x313	313	932	309	21.1	34.5	19.1	825	4.48	39.1	548900	17110
W36 x 12	194	914x305x289	289	927	308	19.4	32.0	19.1	825	4.81	42.5	504500	15640
W36 x 12	182	† 914x305x271	271	923	307	18.4	30.0	19.1	825	5.12	44.9	471400	14520
W36 x 12	170	914x305x253	253	919	306	17.3	27.9	19.1	825	5.48	47.7	436900	13310
W36 x 12	160	† 914x305x238	238	915	305	16.5	25.9	19.1	825	5.88	50.0	405900	12260
W36 x 12	150	914x305x224	224	911	304	15.9	23.9	19.1	825	6.35	52.0	376300	11180
W36 x 12	135	914x305x201	201	903	304	15.2	20.1	19.1	825	7.56	54.3	325300	9442

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



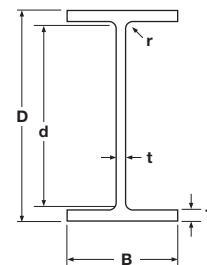
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
40.6	6.55	19690	1727	23170	2790	0.867	21.1	64.1	4294	619	W40 x 12	327
40.4	6.49	17760	1538	20790	2472	0.868	23.1	56.0	3197	557	W40 x 12	294
40.2	6.40	15900	1353	18540	2167	0.868	25.5	48.4	2330	500	W40 x 12	264
40.3	6.45	14360	1226	16610	1944	0.872	27.9	43.4	1720	445	W40 x 12	235
40.1	6.37	12880	1082	14850	1712	0.872	30.7	37.7	1264	400	W40 x 12	211
40.0	6.35	11190	934	12830	1469	0.873	35.0	32.2	835	347	W40 x 12	183
39.0	6.09	9821	784	11350	1244	0.861	39.9	26.8	582	317	W40 x 12	167
38.0	5.81	8409	636	9808	1019	0.850	45.7	21.5	390	283	W40+ x 12	149
38.9	9.82	21710	3084	24830	4793	0.887	19.7	132	4515	680	# W36 x 16 1/2	359
38.8	9.76	19880	2802	22640	4344	0.887	21.3	119	3502	622	# W36 x 16 1/2	328
38.6	9.73	18160	2551	20600	3948	0.887	23.3	107	2675	570	# W36 x 16 1/2	300
38.5	9.70	16970	2373	19210	3668	0.887	24.8	98.7	2194	533	# W36 x 16 1/2	280
38.2	9.61	15630	2165	17660	3346	0.885	26.7	89.1	1731	494	# W36 x 16 1/2	260
38.0	9.53	14660	2015	16540	3111	0.884	28.3	82.2	1442	465	# W36 x 16 1/2	245
37.9	9.47	13720	1871	15460	2888	0.883	30.2	75.8	1189	436	# W36 x 16 1/2	230
39.5	9.79	22150	3085	25350	4798	0.886	20.1	137	4527	684	W36 x 16 1/2	361
39.4	9.72	20270	2797	23080	4338	0.887	21.7	122	3507	625	W36 x 16 1/2	330
39.1	9.70	18510	2549	21010	3947	0.886	23.7	110	2673	573	W36 x 16 1/2	302
39.0	9.66	17300	2368	19590	3663	0.886	25.3	102	2193	535	W36 x 16 1/2	282
38.8	9.55	15920	2156	18000	3333	0.884	27.2	91.6	1733	496	W36 x 16 1/2	262
38.6	9.50	14980	2017	16910	3116	0.883	28.8	85.1	1450	468	W36 x 16 1/2	247
38.4	9.43	13980	1865	15770	2881	0.882	30.8	78.1	1190	439	W36 x 16 1/2	231
38.8	7.05	22180	2267	26270	3655	0.871	16.8	78.5	7134	733	# W36 x 12	387
38.5	6.95	20010	2012	23590	3234	0.871	18.4	68.1	5337	663	# W36 x 12	350
38.3	6.88	18230	1810	21380	2896	0.872	19.9	60.1	4101	604	# W36 x 12	318
38.1	6.81	16390	1608	19120	2559	0.873	21.8	52.3	3027	542	# W36 x 12	286
37.9	6.72	14650	1414	17020	2243	0.872	24.1	45.0	2197	486	W36 x 12	256
37.7	6.66	13260	1266	15340	2001	0.872	26.4	39.7	1649	440	W36 x 12	232
37.1	6.55	11780	1106	13640	1752	0.866	29.7	34.4	1163	399	W36 x 12	210
37.0	6.52	10890	1016	12570	1603	0.867	32.0	31.3	923	368	W36 x 12	194
36.9	6.48	10210	946	11780	1490	0.867	33.9	28.9	768	346	W36 x 12	182
36.8	6.42	9509	871	10950	1371	0.866	36.2	26.4	626	323	W36 x 12	170
36.6	6.36	8875	805	10220	1265	0.864	38.6	24.2	514	303	W36 x 12	160
36.3	6.26	8261	737	9525	1159	0.861	41.3	22.0	421	285	W36 x 12	150
35.6	6.07	7204	621	8358	982	0.853	46.9	18.4	291	256	W36 x 12	135

For notes to tables, see page 30.

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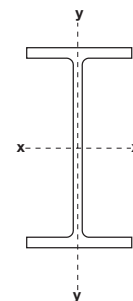
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
W33 x 15 ³ / ₄	387	† 838x400x576	576	913	411	32.0	57.9	17.8	761	3.55	23.8	1010200	67230
W33 x 15 ³ / ₄	354	† 838x400x527	527	903	409	29.5	53.1	17.8	761	3.85	25.8	914000	60730
W33 x 15 ³ / ₄	318	† 838x400x473	473	893	406	26.4	48.0	17.8	761	4.23	28.8	812100	53670
W33 x 15 ³ / ₄	291	† 838x400x433	433	885	404	24.4	43.9	17.8	761	4.60	31.2	734800	48350
W33 x 15 ³ / ₄	263	† 838x400x392	392	877	401	22.1	39.9	17.8	761	5.03	34.5	658800	43090
W33 x 15 ³ / ₄	241	† 838x400x359	359	868	403	21.1	35.6	17.8	761	5.66	36.1	590500	38900
W33 x 15 ³ / ₄	221	† 838x400x329	329	862	401	19.7	32.4	17.8	761	6.19	38.6	534400	34880
W33 x 15 ³ / ₄	201	† 838x400x299	299	855	400	18.2	29.2	17.8	761	6.85	41.8	479700	31170
# W33 x 11 ¹ / ₂	219	† 838x292x326	326	877	297	22.1	39.9	17.8	762	3.72	34.5	513300	17530
# W33 x 11 ¹ / ₂	204	† 838x292x304	304	871	296	20.6	37.1	17.8	762	3.99	36.9	473300	16050
# W33 x 11 ¹ / ₂	187	† 838x292x278	278	865	294	19.1	34.0	17.8	762	4.33	40.0	430200	14470
W33 x 11 ¹ / ₂	169	† 838x292x251	251	859	292	17.0	31.0	17.8	762	4.71	44.7	386800	12910
W33 x 11 ¹ / ₂	152	838x292x226	226	851	294	16.1	26.8	17.8	762	5.48	47.3	339700	11360
W33 x 11 ¹ / ₂	141	† 838x292x210	210	846	293	15.4	24.4	17.8	762	6.01	49.6	310400	10250
W33 x 11 ¹ / ₂	130	838x292x193	193	840	292	14.7	21.7	17.8	762	6.74	51.8	278300	9013
W33 x 11 ¹ / ₂	118	838x292x176	176	835	292	14.0	18.8	17.8	762	7.76	54.4	246000	7799
W30 x 15	326	† 762x381x484	484	823	390	29.0	52.1	16.5	686	3.74	23.6	697400	51660
W30 x 15	292	† 762x381x434	434	813	387	25.9	47.0	16.5	686	4.12	26.5	618200	45650
W30 x 15	261	† 762x381x389	389	803	385	23.6	41.9	16.5	686	4.59	29.0	543900	39940
W30 x 15	235	† 762x381x350	350	795	382	21.1	38.1	16.5	686	5.01	32.5	485600	35460
W30 x 15	211	† 762x381x314	314	786	384	19.7	33.4	16.5	686	5.74	34.8	427100	31500
W30 x 15	191	† 762x381x284	284	779	382	18.0	30.1	16.5	686	6.35	38.1	381300	28000
W30 x 15	173	† 762x381x257	257	773	381	16.6	27.1	16.5	686	7.03	41.4	341600	25010
W30 x 10 ¹ / ₂	148	† 762x267x220	220	779	266	16.5	30.0	16.5	686	4.44	41.6	278200	9462
W30 x 10 ¹ / ₂	132	762x267x196	196	770	268	15.6	25.4	16.5	686	5.28	44.1	239800	8168
W30 x 10 ¹ / ₂	124	† 762x267x185	185	766	267	14.9	23.6	16.5	686	5.66	46.0	222800	7510
W30 x 10 ¹ / ₂	116	762x267x173	173	762	267	14.4	21.6	16.5	686	6.17	47.7	205400	6850
W30 x 10 ¹ / ₂	108	† 762x267x161	161	758	266	13.8	19.3	16.5	686	6.89	49.6	186000	6073
W30 x 10 ¹ / ₂	99	762x267x147	147	753	265	13.2	17.0	16.5	686	7.80	52.0	166000	5301
W30 x 10 ¹ / ₂	90	762x267x134	134	750	264	11.9	15.5	16.5	686	8.53	57.5	150500	4787
W27 x 14	307	† 686x356x457	457	752	367	29.5	53.1	15.2	616	3.45	20.9	545100	43860
W27 x 14	281	† 686x356x419	419	744	364	26.9	49.0	15.2	616	3.72	22.9	494500	39630
W27 x 14	258	† 686x356x384	384	736	362	24.9	45.0	15.2	616	4.03	24.7	448000	35780
W27 x 14	235	† 686x356x350	350	728	360	23.1	40.9	15.2	616	4.41	26.7	402300	31980
W27 x 14	217	† 686x356x323	323	722	359	21.1	38.1	15.2	616	4.71	29.2	369300	29340
W27 x 14	194	† 686x356x289	289	714	356	19.0	34.0	15.2	616	5.24	32.3	325400	25720
W27 x 14	178	† 686x356x265	265	706	358	18.4	30.2	15.2	616	5.92	33.5	290600	23090
W27 x 14	161	† 686x356x240	240	701	356	16.8	27.4	15.2	616	6.50	36.6	261100	20650
W27 x 14	146	† 686x356x217	217	695	355	15.4	24.8	15.2	616	7.17	40.1	234300	18480

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



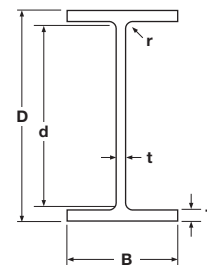
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
37.1	9.57	22130	3271	25530	5099	0.887	16.7	123	6126	734	W33 x 15 ³ / ₄	387
36.9	9.51	20240	2970	23250	4620	0.887	18.1	110	4743	672	W33 x 15 ³ / ₄	354
36.7	9.44	18190	2644	20770	4099	0.888	19.9	95.8	3484	603	W33 x 15 ³ / ₄	318
36.5	9.36	16610	2394	18900	3705	0.887	21.6	85.5	2683	552	W33 x 15 ³ / ₄	291
36.3	9.29	15030	2147	17020	3316	0.888	23.6	75.4	2010	499	W33 x 15 ³ / ₄	263
35.9	9.22	13610	1931	15400	2983	0.884	26.1	67.4	1496	458	W33 x 15 ³ / ₄	241
35.7	9.12	12400	1739	14010	2686	0.882	28.4	60.0	1146	420	W33 x 15 ³ / ₄	221
35.5	9.04	11220	1559	12650	2404	0.881	31.2	53.2	855	381	W33 x 15 ³ / ₄	201
35.1	6.49	11710	1180	13540	1863	0.874	24.4	30.7	1568	416	# W33 x 11 ¹ / ₂	219
35.0	6.44	10860	1086	12540	1711	0.874	26.1	27.9	1267	387	# W33 x 11 ¹ / ₂	204
34.8	6.39	9946	984	11450	1546	0.874	28.3	25.0	982	355	# W33 x 11 ¹ / ₂	187
34.8	6.36	9004	884	10310	1384	0.875	30.9	22.1	736	320	W33 x 11 ¹ / ₂	169
34.3	6.28	7984	773	9153	1211	0.870	35.0	19.3	513	288	W33 x 11 ¹ / ₂	152
34.0	6.18	7337	700	8420	1097	0.867	37.9	17.3	404	268	W33 x 11 ¹ / ₂	141
33.6	6.05	6624	617	7621	969	0.862	41.7	15.1	304	246	W33 x 11 ¹ / ₂	130
33.1	5.90	5893	535	6808	842	0.856	46.5	13.0	221	224	W33 x 11 ¹ / ₂	118
33.6	9.15	16950	2649	19490	4117	0.888	16.7	76.8	4229	617	W30 x 15	326
33.4	9.09	15210	2357	17380	3651	0.889	18.3	67.0	3091	553	W30 x 15	292
33.2	8.98	13550	2075	15420	3209	0.888	20.3	57.8	2218	495	W30 x 15	261
33.0	8.92	12220	1856	13830	2863	0.889	22.2	50.8	1651	445	W30 x 15	235
32.7	8.87	10870	1642	12270	2531	0.886	25.0	44.6	1161	400	W30 x 15	211
32.5	8.80	9789	1466	11020	2257	0.885	27.5	39.3	858	362	W30 x 15	191
32.3	8.73	8839	1313	9926	2019	0.884	30.3	34.8	637	328	W30 x 15	173
31.5	5.81	7142	711	8197	1114	0.875	28.9	13.3	605	281	W30 x 10 ¹ / ₂	148
31.0	5.71	6230	610	7160	957	0.869	33.2	11.3	403	250	W30 x 10 ¹ / ₂	132
30.8	5.65	5817	563	6686	884	0.867	35.4	10.3	333	235	W30 x 10 ¹ / ₂	124
30.5	5.57	5390	514	6205	808	0.864	38.0	9.4	268	221	W30 x 10 ¹ / ₂	116
30.2	5.45	4907	457	5665	719	0.859	41.5	8.3	207	205	W30 x 10 ¹ / ₂	108
29.8	5.32	4408	400	5107	631	0.854	45.6	7.2	156	187	W30 x 10 ¹ / ₂	99
29.7	5.31	4013	362	4635	569	0.855	49.9	6.5	118	170	W30 x 10 ¹ / ₂	90
30.6	8.68	14500	2391	16760	3718	0.889	14.8	53.6	4157	582	W27 x 14	307
30.5	8.62	13290	2175	15280	3374	0.890	15.9	47.9	3247	533	W27 x 14	281
30.3	8.55	12170	1975	13930	3058	0.889	17.2	42.7	2523	489	W27 x 14	258
30.0	8.47	11050	1775	12600	2745	0.888	18.8	37.7	1915	446	W27 x 14	235
30.0	8.44	10230	1636	11610	2524	0.890	20.1	34.3	1533	412	W27 x 14	217
29.8	8.36	9115	1443	10300	2222	0.889	22.3	29.7	1099	368	W27 x 14	194
29.4	8.28	8227	1291	9290	1990	0.885	24.7	26.4	811	337	W27 x 14	178
29.2	8.22	7452	1160	8387	1785	0.884	27.0	23.4	609	306	W27 x 14	161
29.1	8.17	6738	1041	7561	1600	0.884	29.7	20.8	454	277	W27 x 14	146

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



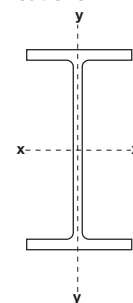
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
# W27 x 10	221	† 686x254x329	329	740	265	25.9	47.0	15.2	615	2.82	23.7	359400	14650
# W27 x 10	201	† 686x254x299	299	732	263	23.9	42.9	15.2	615	3.06	25.8	323200	13040
# W27 x 10	182	† 686x254x271	271	724	260	21.6	39.1	15.2	615	3.33	28.5	289300	11540
# W27 x 10	159	† 686x254x237	237	714	258	19.1	34.0	15.2	615	3.79	32.1	248200	9787
W27 x 10	129	† 686x254x192	192	702	254	15.5	27.9	15.2	615	4.55	39.6	197800	7643
W27 x 10	114	686x254x170	170	693	256	14.5	23.6	15.2	615	5.42	42.4	169800	6602
W27 x 10	102	686x254x152	152	688	254	13.1	21.1	15.2	615	6.03	46.9	150600	5810
W27 x 10	94	686x254x140	140	684	254	12.4	18.9	15.2	615	6.71	49.6	135800	5156
W27 x 10	84	686x254x125	125	678	253	11.7	16.3	15.2	615	7.76	52.7	118500	4410
W24 x 12 ^{3/4}	306	† 610x324x455	455	689	340	32.0	57.9	16.5	540	2.94	16.9	445200	38090
W24 x 12 ^{3/4}	279	† 610x324x415	415	679	338	29.5	53.1	16.5	540	3.18	18.3	399400	34160
W24 x 12 ^{3/4}	250	† 610x324x372	372	669	335	26.4	48.0	16.5	540	3.49	20.5	353400	30060
W24 x 12 ^{3/4}	229	† 610x324x341	341	661	333	24.4	43.9	16.5	540	3.79	22.1	318900	27090
W24 x 12 ^{3/4}	207	† 610x324x307	307	653	330	22.1	39.9	16.5	540	4.14	24.5	284000	23890
W24 x 12 ^{3/4}	192	† 610x324x285	285	647	329	20.6	37.1	16.5	540	4.43	26.3	260900	21960
W24 x 12 ^{3/4}	176	† 610x324x262	262	641	327	19.0	34.0	16.5	540	4.81	28.4	236700	19850
W24 x 12 ^{3/4}	162	† 610x324x241	242	635	329	17.9	31.0	16.5	540	5.31	30.2	215100	18320
W24 x 12 ^{3/4}	146	† 610x324x217	218	628	328	16.5	27.7	16.5	540	5.92	32.8	190800	16210
W24 x 12 ^{3/4}	131	† 610x324x195	196	622	327	15.4	24.4	16.5	540	6.70	35.2	167700	14150
W24 x 12 ^{3/4}	117	† 610x324x174	174	616	325	14.0	21.6	16.5	540	7.53	38.7	147400	12310
W24 x 12 ^{3/4}	104	† 610x324x155	155	611	324	12.7	19.0	16.5	540	8.53	42.6	129600	10780
UB24 x 12	160	610x305x238	238	636	311	18.4	31.4	16.5	540	4.96	29.3	209500	15840
UB24 x 12	120	610x305x179	179	620	307	14.1	23.6	16.5	540	6.51	38.3	153000	11410
UB24 x 12	100	610x305x149	149	612	305	11.8	19.7	16.5	540	7.74	45.8	125900	9308
# W24 x 9	198	† 610x229x295	295	667	241	25.9	47.0	12.7	548	2.56	21.1	259400	10980
# W24 x 9	163	† 610x229x243	243	651	236	21.6	39.1	12.7	548	3.02	25.3	208000	8616
# W24 x 9	146	† 610x229x217	217	643	234	19.6	35.1	12.7	548	3.33	28.0	183200	7475
# W24 x 9	128	† 610x229x191	191	635	232	17.0	31.0	12.7	548	3.73	32.1	159000	6444
# W24 x 9	115	† 610x229x171	171	629	230	15.5	27.9	12.7	548	4.12	35.4	141400	5677
W24 x 9	103	† 610x229x153	153	623	229	14.0	24.9	12.7	548	4.59	39.1	125000	4972
W24 x 9	94	610x229x140	140	617	230	13.1	22.2	12.7	548	5.18	41.8	112200	4526
W24 x 9	84	610x229x125	125	612	229	11.9	19.6	12.7	548	5.84	46.0	98610	3932
W24 x 9	76	610x229x113	113	608	228	11.2	17.3	12.7	548	6.60	48.9	87610	3434
W24 x 9	68	610x229x101	101	603	228	10.5	14.9	12.7	548	7.64	52.3	76120	2934
W24 x 7	62	† 610x178x92	92	603.0	179.0	10.9	15.0	12.7	548	5.97	50.2	64630	1441
W24 x 7	55	† 610x178x82	82	599.0	178.0	10.0	12.8	12.7	548	6.95	54.8	55980	1209

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

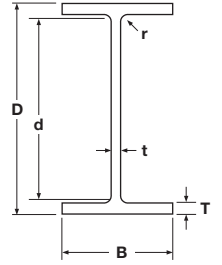
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
29.3	5.92	9717	1106	11390	1760	0.877	17.1	17.6	2190	418	# W27 x 10	221
29.1	5.85	8835	993	10310	1575	0.877	18.6	15.5	1673	381	# W27 x 10	201
29.0	5.78	7993	887	9282	1402	0.878	20.3	13.5	1260	345	# W27 x 10	182
28.7	5.70	6953	759	8032	1195	0.877	23.0	11.3	844	301	# W27 x 10	159
28.5	5.60	5638	602	6457	941	0.878	27.7	8.67	462	244	W27 x 10	129
28.0	5.52	4902	516	5615	808	0.872	31.9	7.39	305	216	W27 x 10	114
27.9	5.47	4382	457	5006	713	0.872	35.4	6.45	221	194	W27 x 10	102
27.6	5.38	3973	406	4543	635	0.868	38.8	5.69	167	178	W27 x 10	94
27.2	5.25	3495	349	4009	545	0.862	43.7	4.83	117	160	W27 x 10	84
27.7	8.11	12920	2241	15120	3498	0.889	12.2	37.9	4940	579	W24 x 12 ³ / ₄	306
27.5	8.03	11770	2024	13690	3152	0.889	13.2	33.4	3810	529	W24 x 12 ³ / ₄	279
27.3	7.96	10560	1797	12200	2790	0.890	14.5	29.0	2799	474	W24 x 12 ³ / ₄	250
27.1	7.90	9650	1627	11090	2523	0.890	15.7	25.8	2162	435	W24 x 12 ³ / ₄	229
26.9	7.81	8697	1449	9939	2241	0.890	17.1	22.5	1612	392	W24 x 12 ³ / ₄	207
26.8	7.77	8064	1337	9181	2064	0.890	18.3	20.4	1299	364	W24 x 12 ³ / ₄	192
26.6	7.71	7385	1214	8374	1872	0.890	19.8	18.3	1008	334	W24 x 12 ³ / ₄	176
26.4	7.71	6781	1115	7666	1718	0.888	21.5	16.7	780	308	W24 x 12 ³ / ₄	162
26.2	7.64	6079	990	6850	1524	0.887	23.7	14.6	568	278	W24 x 12 ³ / ₄	146
25.9	7.53	5398	867	6073	1334	0.884	26.6	12.6	404	249	W24 x 12 ³ / ₄	131
25.8	7.44	4787	758	5372	1166	0.882	29.7	10.9	286	222	W24 x 12 ³ / ₄	117
25.6	7.38	4244	666	4751	1022	0.881	33.2	9.45	201	198	W24 x 12 ³ / ₄	104
26.3	7.23	6589	1017	7486	1574	0.886	21.3	14.5	785	303	UB24 x 12	160
25.9	7.07	4935	743	5548	1144	0.886	27.7	10.2	340	228	UB24 x 12	120
25.7	7.00	4111	611	4594	937	0.886	32.7	8.17	200	190	UB24 x 12	100
26.3	5.41	7778	913	9173	1457	0.878	15.4	10.6	1952	376	# W24 x 9	198
25.9	5.27	6389	730	7459	1157	0.878	18.2	8.07	1124	310	# W24 x 9	163
25.7	5.19	5697	640	6619	1012	0.877	20.1	6.91	813	277	# W24 x 9	146
25.6	5.15	5008	557	5778	875	0.879	22.5	5.88	560	243	# W24 x 9	128
25.4	5.10	4496	494	5167	774	0.878	24.8	5.13	410	218	# W24 x 9	115
25.3	5.04	4012	435	4595	680	0.878	27.6	4.45	295	195	W24 x 9	103
25.1	5.03	3634	393	4155	614	0.875	30.4	4.01	219	179	W24 x 9	94
24.9	4.97	3221	343	3676	535	0.873	34.1	3.45	154	159	W24 x 9	84
24.6	4.87	2882	301	3292	470	0.869	38.0	3.00	112	145	W24 x 9	76
24.3	4.77	2526	258	2892	403	0.864	42.9	2.53	77.8	129	W24 x 9	68
23.4	3.50	2144	161	2513	258	0.848	42.8	1.25	71.0	118	W24 x 7	62
23.2	3.40	1869	136	2197	218	0.843	48.5	1.04	48.8	104	W24 x 7	55

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

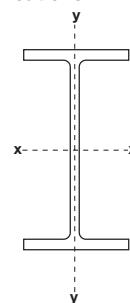
Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent mm	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
# W21 x 12 ¹ / ₄	275	† 533x312x409	409	613	327	31.0	55.6	12.7	476	2.94	15.4	317100	32650
# W21 x 12 ¹ / ₄	248	† 533x312x370	370	603	324	28.2	50.5	12.7	476	3.21	16.9	281200	28830
# W21 x 12 ¹ / ₄	222	† 533x312x331	331	593	322	25.4	45.5	12.7	476	3.54	18.8	247600	25390
W21 x 12 ¹ / ₄	201	† 533x312x300	300	585	319	23.1	41.4	12.7	476	3.85	20.6	220500	22450
W21 x 12 ¹ / ₄	182	† 533x312x272	272	577	317	21.1	37.6	12.7	476	4.22	22.5	196800	20000
W21 x 12 ¹ / ₄	166	† 533x312x248	247	571	315	19.0	34.5	12.7	476	4.57	25.0	177900	18110
W21 x 12 ¹ / ₄	147	† 533x312x219	219	560	318	18.3	29.2	12.7	476	5.45	26.0	151000	15680
W21 x 12 ¹ / ₄	132	† 533x312x196	196	554	316	16.5	26.3	12.7	476	6.01	28.9	134000	13850
W21 x 12 ¹ / ₄	122	† 533x312x182	182	551	315	15.2	24.4	12.7	476	6.45	31.3	123400	12730
W21 x 12 ¹ / ₄	111	† 533x312x165	165	546	313	14.0	22.2	12.7	476	7.05	34.0	111000	11360
W21 x 12 ¹ / ₄	101	† 533x312x150	150	543	312	12.7	20.3	12.7	476	7.68	37.6	100600	10290
W21 x 8 ³ / ₄	93	† 533x210x138	138	549	214	14.7	23.6	12.7	477	4.53	32.4	86120	3870
W21 x 8 ³ / ₄	83	533x210x123	123	544	212	13.1	21.2	12.7	477	5.00	36.4	76210	3377
W21 x 8 ³ / ₄	73	533x210x109	109	539	211	11.6	18.8	12.7	477	5.61	41.1	66790	2941
W21 x 8 ³ / ₄	68	533x210x101	101	537	210	10.9	17.4	12.7	477	6.03	43.7	61620	2692
W21 x 8 ³ / ₄	62	533x210x92	92	533	209	10.2	15.6	12.7	477	6.71	46.8	55320	2389
W21 x 8 ³ / ₄	55	533x210x82	82	528	209	9.5	13.3	12.7	477	7.86	50.2	47700	2021
W21 x 6 ¹ / ₂	57	† 533x165x85	85	535	166	10.3	16.5	12.7	477	5.03	46.3	48540	1263
W21 x 6 ¹ / ₂	50	† 533x165x74	74	529	166	9.7	13.6	12.7	477	6.12	49.3	40960	1038
W21 x 6 ¹ / ₂	44	† 533x165x66	66	525	165	8.9	11.4	12.7	477	7.24	53.6	35060	857
W18 x 7 ¹ / ₂	71	† 457x191x106	106	469	194	12.6	20.6	10.2	408	4.71	32.3	48850	2515
W18 x 7 ¹ / ₂	65	457x191x97	97	466	193	11.4	19.0	10.2	408	5.08	35.8	44510	2282
W18 x 7 ¹ / ₂	60	457x191x89	89	463	192	10.5	17.7	10.2	408	5.42	38.8	41020	2089
W18 x 7 ¹ / ₂	55	457x191x82	82	460	191	9.9	16.0	10.2	408	5.98	41.2	37050	1871
W18 x 7 ¹ / ₂	50	457x191x74	74	457	190	9.0	14.5	10.2	408	6.57	45.3	33320	1671
UB18 x 7 ¹ / ₂	45	457x191x67	67	453	190	8.5	12.7	10.2	408	7.48	48.0	29380	1452
W18 x 6	46	457x152x68	68	459	154	9.1	15.4	10.2	408	5.00	44.9	29690	941
W18 x 6	40	457x152x60	60	455	153	8.0	13.3	10.2	408	5.75	51.0	25430	795
W18 x 6	35	457x152x52	52	450	152	7.6	10.8	10.2	408	7.06	53.7	21240	639
W16 x 7	57	† 406x178x85	85	417	181	10.9	18.2	10.2	360	4.97	33.0	31540	1803
W16 x 7	50	406x178x75	75	413	180	9.7	16.0	10.2	360	5.63	37.2	27460	1559
W16 x 7	45	406x178x67	67	410	179	8.8	14.4	10.2	360	6.21	41.0	24480	1374
W16 x 7	40	406x178x60	60	407	178	7.7	12.8	10.2	360	6.95	46.8	21540	1206
W16 x 7	36	406x178x53	53	403	177	7.5	10.9	10.2	360	8.12	48.1	18570	1009
W16 x 5 ¹ / ₂	31	406x140x46	46	403	140	7.0	11.2	10.2	360	6.25	51.5	15570	514
W16 x 5 ¹ / ₂	26	406x140x39	39	399	140	6.4	8.8	10.2	360	7.95	56.3	12630	404

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

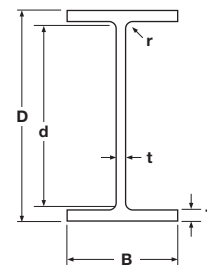
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
24.7	7.92	10350	1994	12130	3103	0.890	11.2	25.4	4135	521	# W21 x 12 ¹ / ₄	275
24.4	7.83	9329	1778	10860	2759	0.890	12.2	22.0	3097	471	# W21 x 12 ¹ / ₄	248
24.2	7.76	8352	1577	9653	2442	0.890	13.4	19.0	2263	422	# W21 x 12 ¹ / ₄	222
24.0	7.67	7542	1408	8665	2175	0.890	14.6	16.6	1701	382	W21 x 12 ¹ / ₄	201
23.9	7.61	6821	1262	7795	1947	0.890	15.9	14.6	1278	346	W21 x 12 ¹ / ₄	182
23.8	7.58	6232	1148	7080	1767	0.891	17.2	13.0	983	315	W21 x 12 ¹ / ₄	166
23.3	7.50	5394	986	6114	1520	0.884	19.8	11.0	642	279	W21 x 12 ¹ / ₄	147
23.1	7.44	4837	877	5456	1349	0.885	21.8	9.64	469	250	W21 x 12 ¹ / ₄	132
23.1	7.42	4481	808	5037	1241	0.885	23.4	8.81	374	231	W21 x 12 ¹ / ₄	122
23.0	7.34	4064	726	4555	1113	0.885	25.6	7.79	283	211	W21 x 12 ¹ / ₄	111
22.9	7.33	3710	660	4141	1010	0.885	27.8	7.02	216	192	W21 x 12 ¹ / ₄	101
22.1	4.69	3137	362	3614	569	0.874	25.0	2.67	250	176	W21 x 8 ¹ / ₄	93
22.0	4.64	2800	319	3211	499	0.874	27.6	2.31	181	157	W21 x 8 ¹ / ₄	83
21.9	4.60	2476	279	2827	435	0.875	30.9	1.99	126	139	W21 x 8 ¹ / ₄	73
21.8	4.57	2296	256	2618	400	0.874	33.1	1.81	102	129	W21 x 8 ¹ / ₄	68
21.7	4.50	2075	228	2366	356	0.871	36.4	1.60	76.2	118	W21 x 8 ¹ / ₄	62
21.4	4.40	1805	194	2062	302	0.866	41.5	1.34	51.7	105	W21 x 8 ¹ / ₄	55
21.2	3.42	1815	152	2104	242	0.862	35.5	0.849	73.7	108	W21 x 6 ¹ / ₂	57
20.8	3.31	1548	125	1803	200	0.853	41.2	0.690	47.5	94.9	W21 x 6 ¹ / ₂	50
20.5	3.20	1336	104	1562	166	0.847	47.0	0.565	32.0	83.7	W21 x 6 ¹ / ₂	44
19.0	4.32	2083	259	2388	405	0.877	24.4	1.26	146	135	W18 x 7 ¹ / ₂	71
19.0	4.31	1910	237	2180	368	0.879	26.4	1.14	113	123	W18 x 7 ¹ / ₂	65
19.0	4.29	1770	218	2014	338	0.880	28.3	1.04	90.7	114	W18 x 7 ¹ / ₂	60
18.8	4.23	1611	196	1831	304	0.877	30.9	0.922	69.2	104	W18 x 7 ¹ / ₂	55
18.8	4.20	1458	176	1653	272	0.877	33.9	0.818	51.8	94.6	W18 x 7 ¹ / ₂	50
18.5	4.12	1296	153	1471	237	0.872	37.9	0.705	37.1	85.5	UB18 x 7 ¹ / ₂	45
18.4	3.28	1294	122	1488	192	0.870	32.9	0.463	50.9	87.2	W18 x 6	46
18.3	3.24	1119	104	1283	163	0.869	37.6	0.387	33.5	75.8	W18 x 6	40
17.9	3.10	944	83.9	1090	132	0.858	44.2	0.308	21.0	66.4	W18 x 6	35
17.1	4.08	1513	199	1725	310	0.881	24.4	0.717	92.6	108	W16 x 7	57
17.0	4.04	1331	173	1511	269	0.880	27.5	0.613	63.7	95.4	W16 x 7	50
16.9	4.00	1195	154	1353	238	0.880	30.3	0.537	46.8	85.9	W16 x 7	45
16.9	3.99	1060	135	1194	209	0.882	33.9	0.467	32.8	75.8	W16 x 7	40
16.5	3.85	923	114	1044	177	0.873	38.5	0.387	22.6	68.0	W16 x 7	36
16.3	2.95	773	73.4	885	115	0.868	38.8	0.197	19.2	58.9	W16 x 5 ¹ / ₂	31
15.9	2.84	634	57.7	730	90.7	0.859	46.8	0.153	11.1	49.9	W16 x 5 ¹ / ₂	26

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

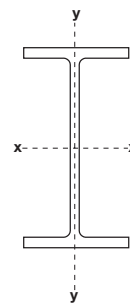
Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
W14 x 16	730	† 356x406x1086	1086	569	454	78.0	125.0	15.2	289	1.81	3.70	595000	195500
W14 x 16	665	† 356x406x990	990	550	448	71.9	115.0	15.2	290	1.95	4.03	518600	173000
W14 x 16	605	† 356x406x900	901	531	442	65.9	106.0	15.2	289	2.08	4.38	449600	152800
W14 x 16	550	† 356x406x818	818	514	437	60.5	97.0	15.2	290	2.25	4.79	392000	135400
W14 x 16	500	† 356x406x744	744	498	432	55.6	88.9	15.2	290	2.43	5.21	342100	119900
W14 x 16	455	† 356x406x677	677	483	428	51.2	81.5	15.2	290	2.63	5.66	299400	106800
W14 x 16	426	356x406x634	634	474	424	47.6	77.1	15.2	290	2.75	6.09	274800	98250
W14 x 16	398	† 356x406x592	592	465	421	45.0	72.3	15.2	290	2.91	6.45	250200	90170
W14 x 16	370	356x406x551	551	455	418	42.0	67.6	15.2	290	3.09	6.90	226800	82730
W14 x 16	342	† 356x406x509	509	446	416	39.1	62.7	15.2	290	3.32	7.42	204500	75400
W14 x 16	311	† 356x406x463	463	435	412	35.8	57.4	15.2	290	3.59	8.09	180200	67040
W14 x 16	283	† 356x406x421	421	425	409	32.8	52.6	15.2	290	3.89	8.84	159600	60040
UC14 x 16	264	356x406x393	393	419	407	30.6	49.2	15.2	290	4.14	9.48	146600	55370
W14 x 16	257	† 356x406x382	382	416	406	29.8	48.0	15.2	290	4.23	9.72	141300	53620
W14 x 16	233	† 356x406x347	347	407	404	27.2	43.7	15.2	290	4.62	10.6	125200	48090
UC14 x 16	228	356x406x340	340	406	403	26.6	42.9	15.2	290	4.70	10.9	122500	46850
W14 x 16	211	† 356x406x314	314	399	401	24.9	39.6	15.2	290	5.06	11.6	110300	42600
W14 x 16	193	356x406x287	287	393	399	22.6	36.6	15.2	290	5.45	12.8	99920	38770
W14 x 16	176	† 356x406x262	262	387	398	21.1	33.3	15.2	290	5.98	13.7	89340	34980
W14 x 16	159	356x406x237	237	380	395	18.9	30.2	15.2	290	6.54	15.3	79030	31090
W14 x 16	145	† 356x406x216	216	375	394	17.3	27.7	15.2	290	7.11	16.7	71320	28250
UC14 x 14 1/2	136	356x368x202	202	375	375	16.5	27.0	15.2	290	6.94	17.6	66260	23690
W14 x 14 1/2	132	† 356x368x196	196	372	374	16.4	26.2	15.2	290	7.15	17.7	63670	22820
W14 x 14 1/2	120	† 356x368x179	179	368	373	15.0	23.9	15.2	290	7.80	19.3	57450	20680
W14 x 14 1/2	109	† 356x368x162	162	364	371	13.3	21.8	15.2	290	8.51	21.8	51550	18560
UC14 x 14 1/2	103	356x368x153	153	362	371	12.3	20.7	15.2	290	8.95	23.6	48590	17550
W14 x 14 1/2	99	† 356x368x147	147	360	370	12.3	19.8	15.2	290	9.34	23.6	46300	16720
W14 x 14 1/2	90	† 356x368x134	134	356	369	11.2	18.0	15.2	290	10.3	25.9	41520	15080
UC14 x 14 1/2	87	356x368x129	129	356	369	10.4	17.5	15.2	290	10.5	27.9	40250	14610
UB14 x 6 3/4	45	356x171x67	67	363	173	9.1	15.7	10.2	312	5.52	34.2	19460	1362
W14 x 6 3/4	38	356x171x57	57	358	172	7.9	13.1	10.2	312	6.56	39.4	16070	1113
W14 x 6 3/4	34	356x171x51	51	355	171	7.2	11.6	10.2	312	7.37	43.3	14140	968
W14 x 6 3/4	30	356x171x45	45	352	171	6.9	9.8	10.2	312	8.73	45.2	12140	819

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



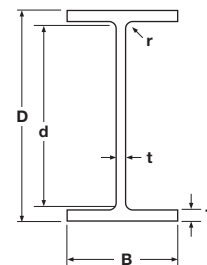
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
20.7	11.9	20910	8623	27180	13340	0.851	3.80	96.4	60390	1384	W14 x 16	730
20.3	11.7	18860	7729	24270	11950	0.850	4.04	81.8	46890	1262	W14 x 16	665
19.8	11.5	16930	6920	21590	10680	0.848	4.27	69.0	36350	1148	W14 x 16	605
19.4	11.4	15250	6197	19250	9552	0.846	4.57	58.9	27810	1043	W14 x 16	550
19.0	11.2	13740	5552	17170	8549	0.845	4.88	50.2	21380	948	W14 x 16	500
18.6	11.1	12400	4992	15340	7676	0.843	5.21	43.1	16430	863	W14 x 16	455
18.4	11.0	11580	4635	14240	7117	0.843	5.45	38.8	13770	808	W14 x 16	426
18.2	10.9	10760	4284	13140	6574	0.842	5.73	34.8	11360	755	W14 x 16	398
18.0	10.9	9961	3955	12080	6063	0.841	6.04	31.1	9264	702	W14 x 16	370
17.8	10.8	9172	3625	11030	5552	0.840	6.43	27.7	7396	649	W14 x 16	342
17.5	10.7	8284	3254	9879	4978	0.839	6.90	23.9	5652	590	W14 x 16	311
17.2	10.6	7511	2937	8881	4487	0.838	7.42	20.8	4336	537	W14 x 16	283
17.1	10.5	6998	2721	8223	4154	0.837	7.86	18.9	3545	501	UC14 x 16	264
17.0	10.5	6795	2641	7966	4031	0.837	8.02	18.2	3286	487	W14 x 16	257
16.8	10.4	6147	2380	7147	3629	0.835	8.68	15.9	2483	442	W14 x 16	233
16.8	10.4	6031	2325	6999	3544	0.836	8.85	15.5	2343	433	UC14 x 16	228
16.6	10.3	5529	2125	6378	3237	0.834	9.45	13.8	1852	399	W14 x 16	211
16.5	10.3	5080	1943	5819	2956	0.835	10.2	12.3	1449	366	W14 x 16	193
16.3	10.2	4617	1758	5256	2673	0.833	11.0	10.9	1102	334	W14 x 16	176
16.2	10.2	4155	1573	4696	2389	0.833	12.0	9.5	820	301	W14 x 16	159
16.1	10.1	3800	1434	4269	2176	0.832	13.0	8.5	633	276	W14 x 16	145
16.1	9.60	3538	1264	3972	1919	0.844	13.4	7.16	558	257	UC14 x 14 1/2	136
16.0	9.55	3420	1220	3837	1853	0.843	13.7	6.83	511	250	W14 x 14 1/2	132
15.9	9.52	3122	1109	3483	1683	0.842	14.9	6.12	391	228	W14 x 14 1/2	120
15.8	9.48	2833	1001	3140	1516	0.843	16.2	5.43	294	206	W14 x 14 1/2	109
15.8	9.49	2684	948	2965	1435	0.844	17.0	5.11	251	195	UC14 x 14 1/2	103
15.7	9.43	2572	904	2839	1369	0.843	17.7	4.84	223	188	W14 x 14 1/2	99
15.6	9.40	2333	817	2563	1237	0.842	19.3	4.31	168	171	W14 x 14 1/2	90
15.6	9.43	2264	793	2479	1199	0.844	19.9	4.18	153	164	UC14 x 14 1/2	87
15.1	3.99	1071	157	1211	243	0.886	24.4	0.41	55.7	85.5	UB14 x 6 3/4	45
14.9	3.93	897	129	1010	199	0.884	28.7	0.33	33.4	72.2	W14 x 6 3/4	38
14.8	3.88	796	113	894	174	0.883	32.0	0.29	23.8	64.5	W14 x 6 3/4	34
14.6	3.78	691	95.8	778	148	0.876	36.6	0.24	16.0	57.3	W14 x 6 3/4	30

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

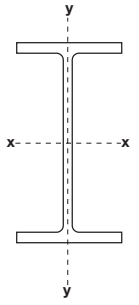


Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
W14 x 5	26	356x127x39	39	353	128	6.5	10.7	10.2	312	5.98	47.9	10270	375
W14 x 5	22	356x127x33	33	349	127	5.8	8.5	10.2	312	7.47	53.7	8267	291
W12 x 12	336	† 305x305x500	500	427	340	45.1	75.1	15.2	247	2.26	5.47	168900	49420
W12 x 12	305	† 305x305x454	454	415	336	41.3	68.7	15.2	247	2.45	5.99	148000	43610
W12 x 12	279	† 305x305x415	415	403	334	38.9	62.7	15.2	247	2.66	6.35	129900	39080
W12 x 12	252	† 305x305x375	375	391	330	35.4	57.2	15.2	247	2.88	6.96	113000	34370
W12 x 12	230	† 305x305x342	342	382	328	32.6	52.6	15.2	247	3.12	7.57	100300	30850
W12 x 12	210	† 305x305x313	313	374	325	30.0	48.3	15.2	247	3.36	8.22	89320	27680
W12 x 12	190	305x305x283	283	365	322	26.9	44.1	15.2	247	3.65	9.17	78890	24640
W12 x 12	170	† 305x305x253	253	356	319	24.4	39.6	15.2	247	4.03	10.1	68280	21460
UC12 x 12	161	305x305x240	240	353	318	23.0	37.7	15.2	247	4.22	10.7	64200	20310
W12 x 12	152	† 305x305x226	226	348	317	22.1	35.6	15.2	247	4.46	11.2	59520	18900
W12 x 12	136	† 305x305x202	202	341	315	20.1	31.8	15.2	247	4.95	12.3	51980	16590
UC12 x 12	133	305x305x198	198	340	315	19.1	31.4	15.2	247	5.01	12.9	50900	16300
W12 x 12	120	† 305x305x179	179	333	313	18.0	28.1	15.2	247	5.57	13.7	44570	14380
W12 x 12	106	305x305x158	158	327	310	15.5	25.1	15.2	247	6.18	15.9	38680	12470
W12 x 12	96	† 305x305x143	143	323	309	14.0	22.9	15.2	247	6.75	17.6	34770	11270
UC12 x 12	92	305x305x137	137	321	309	13.8	21.7	15.2	247	7.12	17.9	32810	10700
W12 x 12	87	† 305x305x129	129	318	308	13.1	20.6	15.2	247	7.49	18.8	30730	10020
W12 x 12	79	305x305x118	118	314	307	11.9	18.7	15.2	247	8.22	20.7	27650	9059
W12 x 12	72	† 305x305x107	107	311	306	10.9	17.0	15.2	247	9.00	22.6	24800	8123
W12 x 12	65	305x305x97	97	308	305	9.9	15.4	15.2	247	9.91	24.9	22250	7308
• UB12 x 6½	36	305x165x54	54	310	167	7.9	13.7	8.9	265	6.09	33.6	11700	1063
• UB12 x 6½	31	305x165x46	46	307	166	6.7	11.8	8.9	265	7.02	39.6	9899	896
• UB12 x 6½	27	305x165x40	40	303	165	6.0	10.2	8.9	265	8.09	44.2	8503	764
UB12 x 5	32	305x127x48	48	311	125	9.0	14.0	8.9	265	4.48	29.5	9575	461
UB12 x 5	28	305x127x42	42	307	124	8.0	12.1	8.9	265	5.14	33.2	8196	389
UB12 x 5	25	305x127x37	37	304	123	7.1	10.7	8.9	265	5.77	37.4	7171	336
W12 x 4	22	305x102x33	33	313	102	6.6	10.8	7.6	276	4.74	41.8	6501	194
W12 x 4	19	305x102x28	28	309	102	6.0	8.9	7.6	276	5.72	46.0	5406	157
W12 x 4	16	305x102x24	24	305	101	5.6	6.7	7.6	276	7.54	49.4	4271	116

For notes to tables, see page 30.



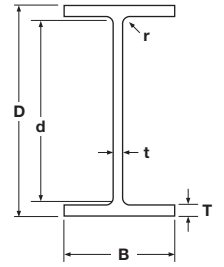
W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
14.3	2.74	581	58.6	663	91.6	0.873	35.3	0.110	15.1	49.9	W14 x 5	26
14.1	2.64	474	45.8	542	71.8	0.866	42.5	0.0843	8.59	41.7	W14 x 5	22
16.3	8.80	7911	2907	9880	4487	0.861	5.00	15.3	10110	638	W12 x 12	336
16.0	8.68	7130	2596	8816	4001	0.860	5.37	13.1	7716	578	W12 x 12	305
15.7	8.60	6448	2340	7903	3607	0.857	5.74	11.3	5950	529	W12 x 12	279
15.4	8.48	5776	2083	7012	3205	0.856	6.17	9.59	4491	478	W12 x 12	252
15.2	8.41	5251	1884	6320	2895	0.855	6.60	8.37	3479	436	W12 x 12	230
15.0	8.33	4781	1704	5707	2615	0.855	7.08	7.32	2700	399	W12 x 12	210
14.8	8.26	4319	1529	5107	2342	0.855	7.65	6.35	2037	361	W12 x 12	190
14.6	8.16	3835	1346	4493	2059	0.854	8.37	5.38	1477	322	W12 x 12	170
14.5	8.15	3643	1276	4247	1950	0.854	8.74	5.03	1271	306	UC12 x 12	161
14.4	8.09	3421	1193	3972	1823	0.853	9.17	4.61	1073	289	W12 x 12	152
14.2	8.02	3049	1053	3510	1608	0.852	10.1	3.96	774	258	W12 x 12	136
14.2	8.04	2995	1037	3440	1581	0.854	10.2	3.88	734	252	UC12 x 12	133
14.0	7.95	2676	919	3055	1401	0.851	11.2	3.34	538	228	W12 x 12	120
13.9	7.88	2365	805	2675	1225	0.852	12.5	2.84	378	201	W12 x 12	106
13.8	7.86	2153	729	2419	1109	0.853	13.5	2.54	287	182	W12 x 12	96
13.7	7.83	2048	692	2297	1052	0.851	14.2	2.39	249	174	UC12 x 12	92
13.7	7.79	1932	650	2161	988	0.851	14.9	2.22	212	165	W12 x 12	87
13.6	7.77	1759	589	1956	895	0.850	16.2	1.98	161	150	W12 x 12	79
13.5	7.72	1595	531	1765	806	0.850	17.6	1.76	122	136	W12 x 12	72
13.4	7.69	1445	479	1592	726	0.850	19.3	1.56	91.2	123	W12 x 12	65
13.0	3.93	754	127	846	196	0.889	23.6	0.234	34.8	68.8	• UB12 x 6½	36
13.0	3.90	646	108	720	166	0.891	27.1	0.195	22.2	58.7	• UB12 x 6½	31
12.9	3.86	560	92.6	623	142	0.889	31.0	0.164	14.7	51.3	• UB12 x 6½	27
12.5	2.74	616	73.6	711	116	0.873	23.3	0.102	31.8	61.2	UB12 x 5	32
12.4	2.70	534	62.6	614	98.4	0.872	26.5	0.0846	21.1	53.4	UB12 x 5	28
12.3	2.67	471	54.5	539	85.4	0.872	29.7	0.0725	14.8	47.2	UB12 x 5	25
12.5	2.15	416	37.9	481	60.0	0.866	31.6	0.0442	12.2	41.8	W12 x 4	22
12.2	2.09	350	30.9	406	48.9	0.860	37.1	0.0353	7.56	36.1	W12 x 4	19
11.9	1.95	280	22.9	328	36.7	0.845	45.1	0.0257	4.25	30.4	W12 x 4	16

For notes to tables, see page 30.



W SHAPES in accordance with ASTM A6/A6M

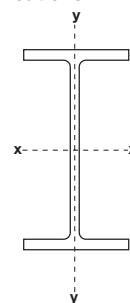
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
W10 x 10	112	254x254x167	167	289	265	19.2	31.8	12.7	200	4.17	10.4	30060	9901
W10 x 10	100	† 254x254x149	149	282	263	17.3	28.4	12.7	200	4.63	11.5	25930	8622
W10 x 10	88	254x254x132	132	275	261	15.4	25.1	12.7	200	5.20	12.9	22240	7487
W10 x 10	77	† 254x254x115	115	269	259	13.5	22.1	12.7	200	5.86	14.8	18950	6405
UC10 x 10	72	254x254x107	107	267	259	12.8	20.5	12.7	200	6.31	15.6	17510	5928
W10 x 10	68	† 254x254x101	101	264	257	11.9	19.6	12.7	200	6.56	16.8	16410	5569
W10 x 10	60	254x254x89	89	260	256	10.7	17.3	12.7	200	7.42	18.8	14290	4852
W10 x 10	54	† 254x254x80	80	256	255	9.4	15.6	12.7	200	8.16	21.3	12600	4298
W10 x 10	49	254x254x73	73	253	254	8.6	14.2	12.7	200	8.94	23.2	11300	3880
W10 x 5¼	30	† 254x146x45	45	265.9	147.6	7.6	13.0	7.6	225	5.68	29.6	7085	698
UB10 x 5¼	29	254x146x43	43	259.6	147.3	7.2	12.7	7.6	219	5.80	30.4	6544	677
W10 x 5¼	26	† 254x146x39	39	262.4	146.6	6.6	11.2	7.6	225	6.54	34.1	6014	589
UB10 x 5¼	25	254x146x37	37	256.0	146.4	6.3	10.9	7.6	219	6.72	34.8	5537	571
W10 x 5¼	22	† 254x146x33	33	258.3	146.1	6.1	9.1	7.6	225	8.03	36.9	4903	474
UB10 x 5¼	21	254x146x31	31	251.4	146.1	6.0	8.6	7.6	219	8.49	36.5	4413	448
W10 x 4	19	254x102x28	28	260.4	102.2	6.4	10.0	7.6	225	5.11	35.2	4015	179
W10 x 4	17	254x102x25	25	257.2	101.9	6.1	8.4	7.6	225	6.07	36.9	3426	149
W10 x 4	15	254x102x22	22	254.0	101.6	5.8	6.9	7.6	225	7.36	38.8	2880	121
W8 x 8	67	† 203x203x100	100	229	210	14.5	23.7	10.2	161	4.44	11.1	11300	3679
W8 x 8	58	203x203x86	86	222	209	13.0	20.6	10.2	161	5.08	12.4	9465	3122
W8 x 8	48	203x203x71	71	216	206	10.2	17.4	10.2	161	5.92	15.7	7646	2537
W8 x 8	40	203x203x59	59	210	205	9.1	14.2	10.2	161	7.22	17.7	6088	2040
W8 x 8	35	203x203x52	52	206	204	7.9	12.6	10.2	161	8.11	20.3	5291	1792
W8 x 8	31	203x203x46	46	203	203	7.2	11.0	10.2	161	9.23	22.3	4556	1535
W8 x 5¼	21	† 203x133x31	31	210	134	6.4	10.2	7.6	175	6.57	27.3	3141	410
UB8 x 5¼	20	203x133x30	30	207	134	6.4	9.6	7.6	172	6.97	26.9	2896	385
W8 x 5¼	18	† 203x133x27	27	207	133	5.8	8.4	7.6	175	7.92	30.2	2580	330
UB8 x 5¼	17	203x133x25	25	203	133	5.7	7.8	7.6	172	8.54	30.2	2340	308
UB8 x 4	16	203x102x23	23	203	102	5.4	9.3	7.6	169	5.47	31.4	2105	164
UB7 x 4	13	178x102x19	19	178	101	4.8	7.9	7.6	147	6.41	30.6	1356	137
W6 x 6	25	152x152x37	37	162	154	8.1	11.6	7.6	124	6.66	15.3	2233	712
W6 x 6	20	152x152x30	30	157	153	6.6	9.3	7.6	124	8.22	18.7	1729	555
W6 x 6	15	152x152x23	23	152	152	5.8	6.6	7.6	124	11.5	21.3	1222	388
UB6 x 3½	11	152x89x16	16	152	89	4.5	7.7	7.6	122	5.76	27.1	834	89.8
UB5 x 3	9	127x76x13	13	127	76	4.0	7.6	7.6	97	5.00	24.2	473	55.7

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M



Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
11.9	6.81	2079	747	2429	1141	0.851	8.47	1.64	631	213	W10 x 10	112
11.7	6.74	1839	656	2129	1001	0.850	9.31	1.39	451	190	W10 x 10	100
11.5	6.69	1617	573	1854	873	0.849	10.3	1.17	315	168	W10 x 10	88
11.4	6.62	1409	495	1600	753	0.849	11.6	0.977	213	146	W10 x 10	77
11.3	6.59	1313	458	1485	697	0.848	12.4	0.898	172	136	UC10 x 10	72
11.3	6.57	1243	433	1399	658	0.849	12.9	0.833	149	129	W10 x 10	68
11.2	6.52	1098	379	1227	575	0.849	14.5	0.716	103	114	W10 x 10	60
11.1	6.49	983	338	1091	512	0.849	15.8	0.623	75.6	102	W10 x 10	54
11.0	6.46	893	306	986	463	0.849	17.2	0.555	57.5	92.9	W10 x 10	49
11.1	3.50	533	94.5	600	145	0.889	21.2	0.112	26.1	57.1	W10 x 5 ³ / ₄	30
10.9	3.52	504	92.0	566	141	0.891	21.2	0.103	23.9	54.8	UB10 x 5 ³ / ₄	29
11.1	3.46	458	80.3	513	123	0.889	24.3	0.0929	16.8	49.2	W10 x 5 ³ / ₄	26
10.8	3.48	433	78.0	483	119	0.890	24.3	0.0857	15.3	47.2	UB10 x 5 ³ / ₄	25
10.8	3.37	380	64.8	425	99.6	0.882	29.0	0.0735	9.86	41.7	W10 x 5 ³ / ₄	22
10.5	3.36	351	61.3	393	94.1	0.880	29.6	0.0660	8.55	39.7	UB10 x 5 ³ / ₄	21
10.5	2.22	308	34.9	354	54.9	0.873	27.5	0.0280	9.68	36.3	W10 x 4	19
10.3	2.15	266	29.2	307	46.1	0.865	31.3	0.0230	6.52	32.3	W10 x 4	17
10.1	2.06	227	23.8	263	37.8	0.855	35.8	0.0185	4.34	28.4	W10 x 4	15
9.44	5.39	988	350	1148	534	0.852	9.02	0.386	210	127	W8 x 8	67
9.27	5.32	852	299	979	456	0.850	10.2	0.317	139	110	W8 x 8	58
9.16	5.28	709	246	803	375	0.852	11.8	0.250	81.8	91.0	W8 x 8	48
8.97	5.20	581	199	651	303	0.848	14.1	0.195	46.5	75.6	W8 x 8	40
8.91	5.18	513	175	571	266	0.848	15.7	0.168	32.4	66.7	W8 x 8	35
8.82	5.12	448	151	496	229	0.847	17.7	0.142	22.1	58.6	W8 x 8	31
8.86	3.20	299	61.1	335	93.7	0.885	20.7	0.0409	11.9	40.0	W8 x 5 ³ / ₄	21
8.71	3.17	280	57.5	314	88.2	0.881	21.5	0.0374	10.3	38.2	UB8 x 5 ³ / ₄	20
8.73	3.12	249	49.6	279	76.1	0.880	24.5	0.0325	7.13	33.9	W8 x 5 ³ / ₄	18
8.56	3.10	230	46.2	258	70.9	0.877	25.6	0.0294	5.96	32.0	UB8 x 5 ³ / ₄	17
8.46	2.36	207	32.2	234	49.7	0.888	22.5	0.0154	7.02	29.4	UB8 x 4	16
7.48	2.37	153	27.0	171	41.6	0.888	22.6	0.0099	4.41	24.3	UB7 x 4	13
6.85	3.87	276	92.3	312	141	0.848	13.2	0.0403	19.7	47.6	W6 x 6	25
6.74	3.82	220	72.5	246	110	0.847	16.1	0.0304	10.3	38.1	W6 x 6	20
6.53	3.68	160	51.0	178	77.8	0.839	21.2	0.0206	4.35	28.7	W6 x 6	15
6.41	2.10	109	20.2	123	31.2	0.890	19.6	0.0047	3.56	20.3	UB6 x 3 ¹ / ₂	11
5.35	1.84	74.6	14.7	84.2	22.6	0.895	16.3	0.0020	2.85	16.5	UB5 x 3	9

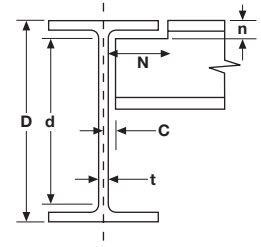
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W40 x 12	327	† 1016x305x486	17	150	86	3.19	6.56	0.124
W40 x 12	294	† 1016x305x438	15	150	80	3.17	7.24	0.111
W40 x 12	264	† 1016x305x393	14	150	74	3.14	8.00	0.100
W40 x 12	235	† 1016x305x350	13	152	70	3.13	8.95	0.0890
W40 x 12	211	† 1016x305x314	12	152	66	3.11	9.89	0.0800
W40 x 12	183	† 1016x305x272	10	152	62	3.10	11.4	0.0694
W40 x 12	167	† 1016x305x249	10	152	56	3.08	12.4	0.0634
W40 x 12	149	† 1016x305x222	10	152	52	3.06	13.8	0.0566
# W36 x 16 1/2	359	† 914x419x534	16	210	76	3.50	6.56	0.136
# W36 x 16 1/2	328	† 914x419x488	15	210	72	3.48	7.13	0.124
# W36 x 16 1/2	300	† 914x419x447	14	210	68	3.47	7.76	0.114
# W36 x 16 1/2	280	† 914x419x418	13	210	64	3.46	8.28	0.107
# W36 x 16 1/2	260	914x419x388	13	210	62	3.44	8.88	0.0988
# W36 x 16 1/2	245	† 914x419x365	12	210	60	3.43	9.40	0.0930
# W36 x 16 1/2	230	914x419x343	12	210	58	3.42	9.98	0.0872
W36 x 16 1/2	361		16	210	76	3.53	6.57	0.137
W36 x 16 1/2	330		15	210	72	3.51	7.15	0.125
W36 x 16 1/2	302		14	210	68	3.50	7.79	0.115
W36 x 16 1/2	282		13	210	64	3.49	8.30	0.107
W36 x 16 1/2	262		13	210	62	3.47	8.91	0.0992
W36 x 16 1/2	247		12	210	60	3.46	9.41	0.0936
W36 x 16 1/2	231		12	210	58	3.45	10.0	0.0878
# W36 x 12	387	† 914x305x576	20	154	86	3.17	5.51	0.147
# W36 x 12	350	† 914x305x521	19	154	78	3.14	6.03	0.133
# W36 x 12	318	† 914x305x474	17	154	74	3.11	6.56	0.121
# W36 x 12	286	† 914x305x425	15	154	70	3.09	7.27	0.108
W36 x 12	256	† 914x305x381	14	154	64	3.06	8.02	0.0972
W36 x 12	232	† 914x305x345	13	154	60	3.04	8.81	0.0880
W36 x 12	210	† 914x305x313	13	156	54	3.03	9.68	0.0798
W36 x 12	194	914x305x289	12	156	52	3.01	10.4	0.0736
W36 x 12	182	† 914x305x271	11	156	50	3.00	11.1	0.0692
W36 x 12	170	914x305x253	11	156	48	2.99	11.8	0.0646
W36 x 12	160	† 914x305x238	10	156	46	2.98	12.5	0.0606
W36 x 12	150	914x305x224	10	154	44	2.97	13.3	0.0570
W36 x 12	135	914x305x201	10	156	40	2.96	14.7	0.0512

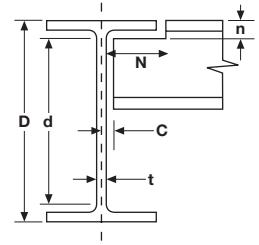
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W33 x 15 ³ / ₄	387	† 838x400x576	18	200	76	3.38	5.87	0.147
W33 x 15 ³ / ₄	354	† 838x400x527	17	200	72	3.35	6.36	0.134
W33 x 15 ³ / ₄	318	† 838x400x473	15	200	66	3.33	7.04	0.121
W33 x 15 ³ / ₄	291	† 838x400x433	14	200	62	3.31	7.64	0.110
W33 x 15 ³ / ₄	263	† 838x400x392	13	200	58	3.28	8.37	0.100
W33 x 15 ³ / ₄	241	† 838x400x359	13	202	54	3.28	9.13	0.0916
W33 x 15 ³ / ₄	221	† 838x400x329	12	202	52	3.26	9.90	0.0840
W33 x 15 ³ / ₄	201	† 838x400x299	11	202	48	3.24	10.8	0.0762
# W33 x 11 ¹ / ₂	219	† 838x292x326	13	148	58	2.87	8.79	0.0832
# W33 x 11 ¹ / ₂	204	† 838x292x304	12	148	56	2.85	9.39	0.0774
# W33 x 11 ¹ / ₂	187	† 838x292x278	12	148	52	2.84	10.2	0.0710
W33 x 11 ¹ / ₂	169	† 838x292x251	11	148	50	2.82	11.2	0.0640
W33 x 11 ¹ / ₂	152	838x292x226	10	150	46	2.81	12.4	0.0576
W33 x 11 ¹ / ₂	141	† 838x292x210	10	150	44	2.80	13.3	0.0536
W33 x 11 ¹ / ₂	130	838x292x193	9	150	40	2.79	14.4	0.0492
W33 x 11 ¹ / ₂	118	838x292x176	9	150	38	2.78	15.8	0.0448
W30 x 15	326	† 762x381x484	17	192	70	3.12	6.44	0.123
W30 x 15	292	† 762x381x434	15	192	64	3.10	7.14	0.111
W30 x 15	261	† 762x381x389	14	192	60	3.07	7.90	0.0990
W30 x 15	235	† 762x381x350	13	192	56	3.05	8.73	0.0890
W30 x 15	211	† 762x381x314	12	192	50	3.04	9.67	0.0800
W30 x 15	191	† 762x381x284	11	192	48	3.02	10.6	0.0724
W30 x 15	173	† 762x381x257	10	194	44	3.01	11.7	0.0656
W30 x 10 ¹ / ₂	148	† 762x267x220	10	136	48	2.56	11.6	0.0562
W30 x 10 ¹ / ₂	132	762x267x196	10	138	42	2.55	13.0	0.0500
W30 x 10 ¹ / ₂	124	† 762x267x185	9	138	42	2.54	13.7	0.0470
W30 x 10 ¹ / ₂	116	762x267x173	9	138	40	2.53	14.6	0.0442
W30 x 10 ¹ / ₂	108	† 762x267x161	9	138	36	2.52	15.7	0.0410
W30 x 10 ¹ / ₂	99	762x267x147	9	136	34	2.51	17.1	0.0374
W30 x 10 ¹ / ₂	90	762x267x134	8	138	32	2.51	18.8	0.0340

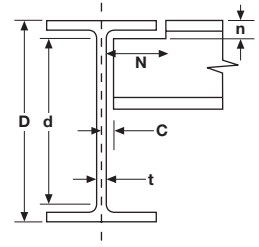
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W27 x 14	307	† 686x356x457	17	180	70	2.89	6.32	0.116
W27 x 14	281	† 686x356x419	15	180	66	2.87	6.86	0.107
W27 x 14	258	† 686x356x384	14	180	62	2.85	7.42	0.0978
W27 x 14	235	† 686x356x350	14	180	58	2.83	8.08	0.0892
W27 x 14	217	† 686x356x323	13	180	54	2.81	8.70	0.0824
W27 x 14	194	† 686x356x289	12	180	50	2.79	9.67	0.0736
W27 x 14	178	† 686x356x265	11	180	46	2.78	10.5	0.0674
W27 x 14	161	† 686x356x240	10	180	44	2.77	11.5	0.0612
W27 x 14	146	† 686x356x217	10	180	40	2.75	12.6	0.0554
# W27 x 10	221	† 686x254x329	15	130	64	2.46	7.49	0.0836
# W27 x 10	201	† 686x254x299	14	130	60	2.44	8.15	0.0762
# W27 x 10	182	† 686x254x271	13	130	56	2.42	8.94	0.0690
# W27 x 10	159	† 686x254x237	12	130	50	2.40	10.1	0.0602
W27 x 10	129	† 686x254x192	10	130	44	2.36	12.3	0.0488
W27 x 10	114	686x254x170	9	132	40	2.35	13.8	0.0432
W27 x 10	102	686x254x152	9	132	38	2.34	15.4	0.0388
W27 x 10	94	686x254x140	8	132	36	2.33	16.7	0.0356
W27 x 10	84	686x254x125	8	132	32	2.32	18.5	0.0320
W24 x 12 ³ / ₄	306	† 610x324x455	18	164	76	2.65	5.83	0.116
W24 x 12 ³ / ₄	279	† 610x324x415	17	166	70	2.62	6.31	0.106
W24 x 12 ³ / ₄	250	† 610x324x372	15	166	66	2.60	6.98	0.0948
W24 x 12 ³ / ₄	229	† 610x324x341	14	166	62	2.58	7.56	0.0870
W24 x 12 ³ / ₄	207	† 610x324x307	13	164	58	2.55	8.29	0.0784
W24 x 12 ³ / ₄	192	† 610x324x285	12	166	54	2.54	8.90	0.0728
W24 x 12 ³ / ₄	176	† 610x324x262	12	164	52	2.52	9.62	0.0668
W24 x 12 ³ / ₄	162	† 610x324x241	11	166	48	2.52	10.4	0.0616
W24 x 12 ³ / ₄	146	† 610x324x217	10	166	46	2.50	11.5	0.0556
W24 x 12 ³ / ₄	131	† 610x324x195	10	166	42	2.49	12.7	0.0498
W24 x 12 ³ / ₄	117	† 610x324x174	9	166	40	2.47	14.2	0.0444
W24 x 12 ³ / ₄	104	† 610x324x155	8	166	36	2.46	15.8	0.0396
UB24 x 12	160	610x305x238	11	158	48	2.45	10.3	0.0606
UB24 x 12	120	610x305x179	9	158	42	2.41	13.5	0.0456
UB24 x 12	100	610x305x149	8	158	38	2.39	16.0	0.0380

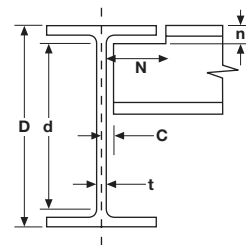
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
# W24 x 9	198	† 610x229x295	15	118	60	2.22	7.52	0.0752
# W24 x 9	163	† 610x229x243	13	118	52	2.18	8.97	0.0620
# W24 x 9	146	† 610x229x217	12	118	48	2.16	9.93	0.0554
# W24 x 9	128	† 610x229x191	11	118	44	2.14	11.2	0.0486
# W24 x 9	115	† 610x229x171	10	118	42	2.13	12.4	0.0436
W24 x 9	103	† 610x229x153	9	118	38	2.11	13.7	0.0390
W24 x 9	94	610x229x140	9	120	36	2.11	15.0	0.0358
W24 x 9	84	610x229x125	8	120	34	2.09	16.7	0.0318
W24 x 9	76	610x229x113	8	120	30	2.08	18.3	0.0290
W24 x 9	68	610x229x101	7	120	28	2.07	20.4	0.0258
W24 x 7	62	† 610x178x92	7	96	28	1.88	20.4	0.0236
W24 x 7	55	† 610x178x82	7	94	26	1.87	22.8	0.0208
# W21 x 12 1/4	275	† 533x312x409	18	160	70	2.45	5.99	0.104
# W21 x 12 1/4	248	† 533x312x370	16	160	64	2.43	6.58	0.0942
# W21 x 12 1/4	222	† 533x312x331	15	160	60	2.40	7.25	0.0844
W21 x 12 1/4	201	† 533x312x300	14	158	56	2.38	7.95	0.0764
W21 x 12 1/4	182	† 533x312x272	13	158	52	2.36	8.69	0.0692
W21 x 12 1/4	166	† 533x312x248	12	160	48	2.34	9.46	0.0630
W21 x 12 1/4	147	† 533x312x219	11	160	42	2.33	10.6	0.0558
W21 x 12 1/4	132	† 533x312x196	10	160	40	2.32	11.8	0.0500
W21 x 12 1/4	122	† 533x312x182	10	160	38	2.31	12.7	0.0462
W21 x 12 1/4	111	† 533x312x165	9	160	36	2.29	13.9	0.0422
W21 x 12 1/4	101	† 533x312x150	8	160	34	2.29	15.2	0.0384
W21 x 8 1/4	93	† 533x210x138	9	110	38	1.90	13.7	0.0352
W21 x 8 1/4	83	533x210x123	9	110	34	1.89	15.3	0.0314
W21 x 8 1/4	73	533x210x109	8	110	32	1.88	17.3	0.0278
W21 x 8 1/4	68	533x210x101	7	110	32	1.87	18.4	0.0258
W21 x 8 1/4	62	533x210x92	7	110	30	1.86	20.1	0.0236
W21 x 8 1/4	55	533x210x82	7	110	26	1.85	22.5	0.0210
W21 x 6 1/2	57	† 533x165x85	7	88	30	1.69	20.0	0.0216
W21 x 6 1/2	50	† 533x165x74	7	90	28	1.68	22.6	0.0190
W21 x 6 1/2	44	† 533x165x66	6	90	26	1.67	25.4	0.0167
W18 x 7 1/2	71	† 457x191x106	8	102	32	1.67	15.8	0.0270
W18 x 7 1/2	65	457x191x97	8	102	30	1.66	17.2	0.0246
W18 x 7 1/2	60	457x191x89	7	102	28	1.66	18.6	0.0228
W18 x 7 1/2	55	457x191x82	7	102	28	1.65	20.1	0.0208
W18 x 7 1/2	50	457x191x74	7	102	26	1.64	22.1	0.0189
UB18 x 7 1/2	45	457x191x67	6	102	24	1.63	24.3	0.0171

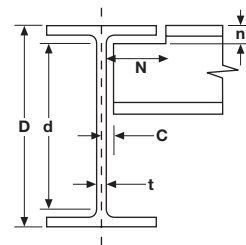
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W18 x 6	46	457x152x68	7	84	26	1.50	21.9	0.0174
W18 x 6	40	457x152x60	6	84	24	1.49	25.0	0.0152
W18 x 6	35	457x152x52	6	84	22	1.48	28.4	0.0133
W16 x 7	57	† 406x178x85	7	96	30	1.52	17.9	0.0216
W16 x 7	50	406x178x75	7	96	28	1.51	20.2	0.0191
W16 x 7	45	406x178x67	6	96	26	1.50	22.2	0.0172
W16 x 7	40	406x178x60	6	96	24	1.49	25.0	0.0152
W16 x 7	36	406x178x53	6	96	22	1.48	27.7	0.0136
W16 x 5½	31	406x140x46	6	78	22	1.33	28.8	0.0118
W16 x 5½	26	406x140x39	5	78	20	1.33	33.9	0.0100
W14 x 16	730	† 356x406x1086	41	198	142	2.77	2.55	0.277
W14 x 16	665	† 356x406x990	38	198	132	2.72	2.75	0.252
W14 x 16	605	† 356x406x900	35	198	122	2.67	2.96	0.230
W14 x 16	550	† 356x406x818	32	200	114	2.63	3.21	0.209
W14 x 16	500	† 356x406x744	30	200	106	2.59	3.48	0.190
W14 x 16	455	† 356x406x677	28	200	98	2.55	3.76	0.173
W14 x 16	426	356x406x634	26	200	94	2.52	3.97	0.162
W14 x 16	398	† 356x406x592	24	200	88	2.50	4.22	0.151
W14 x 16	370	356x406x551	23	200	84	2.47	4.48	0.140
W14 x 16	342	† 356x406x509	22	200	78	2.45	4.81	0.130
W14 x 16	311	† 356x406x463	20	200	74	2.42	5.23	0.118
W14 x 16	283	† 356x406x421	18	200	68	2.39	5.67	0.107
UC14 x 16	264	356x406x393	17	200	66	2.38	6.06	0.100
W14 x 16	257	† 356x406x382	17	200	64	2.37	6.20	0.0974
W14 x 16	233	† 356x406x347	16	200	60	2.35	6.77	0.0884
UC14 x 16	228	356x406x340	15	200	60	2.35	6.91	0.0866
W14 x 16	211	† 356x406x314	14	200	56	2.33	7.43	0.0798
W14 x 16	193	356x406x287	13	200	52	2.31	8.04	0.0732
W14 x 16	176	† 356x406x262	13	200	50	2.30	8.76	0.0668
W14 x 16	159	356x406x237	11	200	46	2.28	9.64	0.0602
W14 x 16	145	† 356x406x216	11	200	44	2.27	10.5	0.0552
UC14 x 14½	136	356x368x202	10	190	44	2.19	10.8	0.0514
W14 x 14½	132	† 356x368x196	10	190	42	2.18	11.1	0.0500
W14 x 14½	120	† 356x368x179	10	190	40	2.17	12.1	0.0456
W14 x 14½	109	† 356x368x162	9	190	38	2.16	13.3	0.0412
UC14 x 14½	103	356x368x153	8	190	36	2.16	14.1	0.0390
W14 x 14½	99	† 356x368x147	8	190	36	2.15	14.6	0.0376
W14 x 14½	90	† 356x368x134	8	190	34	2.14	16.0	0.0342
UC14 x 14½	87	356x368x129	7	190	34	2.14	16.6	0.0328

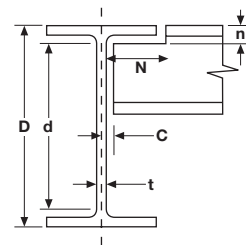
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
UB14 x 6 ³ / ₄	45	356x171x67	7	94	26	1.38	20.6	0.0171
W14 x 6 ³ / ₄	38	356x171x57	6	94	24	1.37	24.2	0.0144
W14 x 6 ³ / ₄	34	356x171x51	6	92	22	1.36	26.9	0.0129
W14 x 6 ³ / ₄	30	356x171x45	5	94	20	1.36	30.2	0.0115
W14 x 5	26	356x127x39	5	72	22	1.19	30.4	0.0100
W14 x 5	22	356x127x33	5	72	20	1.18	36.0	0.0083
W12 x 12	336	† 305x305x500	25	158	92	2.10	4.20	0.128
W12 x 12	305	† 305x305x454	23	158	84	2.07	4.56	0.116
W12 x 12	279	† 305x305x415	21	158	78	2.04	4.91	0.106
W12 x 12	252	† 305x305x375	20	158	74	2.01	5.36	0.0956
W12 x 12	230	† 305x305x342	18	158	68	1.98	5.78	0.0872
W12 x 12	210	† 305x305x313	17	158	64	1.96	6.26	0.0798
W12 x 12	190	305x305x283	15	158	60	1.94	6.85	0.0722
W12 x 12	170	† 305x305x253	14	158	56	1.91	7.55	0.0644
UC12 x 12	161	305x305x240	14	158	54	1.91	7.96	0.0612
W12 x 12	152	† 305x305x226	13	158	52	1.89	8.34	0.0578
W12 x 12	136	† 305x305x202	12	158	48	1.88	9.28	0.0516
UC12 x 12	133	305x305x198	12	158	48	1.87	9.44	0.0504
W12 x 12	120	† 305x305x179	11	158	44	1.86	10.4	0.0456
W12 x 12	106	305x305x158	10	158	42	1.84	11.7	0.0402
W12 x 12	96	† 305x305x143	9	158	40	1.83	12.8	0.0364
UC12 x 12	92	305x305x137	9	158	38	1.82	13.3	0.0348
W12 x 12	87	† 305x305x129	9	158	36	1.82	14.1	0.0330
W12 x 12	79	305x305x118	8	158	34	1.81	15.4	0.0300
W12 x 12	72	† 305x305x107	7	158	34	1.80	16.8	0.0272
W12 x 12	65	305x305x97	7	158	32	1.79	18.5	0.0246
• UB12 x 6 ¹ / ₂	36	305x165x54	6	90	24	1.26	23.3	0.0138
• UB12 x 6 ¹ / ₂	31	305x165x46	5	90	22	1.25	27.1	0.0117
• UB12 x 6 ¹ / ₂	27	305x165x40	5	90	20	1.24	30.8	0.0103
UB12 x 5	32	305x127x48	7	70	24	1.09	22.7	0.0122
UB12 x 5	28	305x127x42	6	70	22	1.08	25.8	0.0107
UB12 x 5	25	305x127x37	6	70	20	1.07	28.9	0.0094
W12 x 4	22	305x102x33	5	58	20	1.01	30.8	0.0084
W12 x 4	19	305x102x28	5	58	18	1.00	35.3	0.0072
W12 x 4	16	305x102x24	5	58	16	0.990	41.5	0.0061

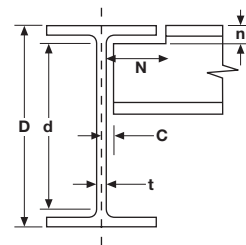
For notes to tables, see page 30.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1







ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W10 x 10	112	254x254x167	12	134	46	1.58	9.44	0.0426
W10 x 10	100	† 254x254x149	11	134	42	1.56	10.5	0.0380
W10 x 10	88	254x254x132	10	134	38	1.54	11.7	0.0336
W10 x 10	77	† 254x254x115	9	134	36	1.53	13.3	0.0292
UC10 x 10	72	254x254x107	8	134	34	1.52	14.2	0.0272
W10 x 10	68	† 254x254x101	8	134	34	1.51	14.9	0.0258
W10 x 10	60	254x254x89	7	134	30	1.50	16.8	0.0228
W10 x 10	54	† 254x254x80	7	134	30	1.49	18.6	0.0204
W10 x 10	49	254x254x73	6	134	28	1.48	20.3	0.0186
W10 x 5 ³ / ₄	30	† 254x146x45	6	80	22	1.09	24.3	0.0114
UB10 x 5 ³ / ₄	29	254x146x43	6	82	22	1.08	25.1	0.0110
W10 x 5 ³ / ₄	26	† 254x146x39	5	80	20	1.08	28.0	0.0098
UB10 x 5 ³ / ₄	25	254x146x37	5	82	20	1.07	28.9	0.0094
W10 x 5 ³ / ₄	22	† 254x146x33	5	80	18	1.08	33.0	0.0083
UB10 x 5 ³ / ₄	21	254x146x31	5	82	18	1.06	34.0	0.0079
W10 x 4	19	254x102x28	5	58	18	0.904	31.7	0.0073
W10 x 4	17	254x102x25	5	58	16	0.897	35.4	0.0065
W10 x 4	15	254x102x22	5	58	16	0.890	39.9	0.0057
W8 x 8	67	† 203x203x100	9	108	34	1.25	12.6	0.0254
W8 x 8	58	203x203x86	8	108	32	1.24	14.3	0.0220
W8 x 8	48	203x203x71	7	108	28	1.22	17.1	0.0182
W8 x 8	40	203x203x59	7	108	26	1.20	20.2	0.0151
W8 x 8	35	203x203x52	6	110	24	1.20	22.9	0.0133
W8 x 8	31	203x203x46	6	108	22	1.19	25.9	0.0117
W8 x 5 ³ / ₄	21	† 203x133x31	5	74	18	0.930	29.6	0.0080
UB8 x 5 ³ / ₄	20	203x133x30	5	74	18	0.923	30.8	0.0076
W8 x 5 ³ / ₄	18	† 203x133x27	5	74	16	0.921	34.6	0.0068
UB8 x 5 ³ / ₄	17	203x133x25	5	74	16	0.915	36.5	0.0064
UB8 x 4	16	203x102x23	5	60	18	0.790	34.2	0.0059
UB7 x 4	13	178x102x19	4	60	16	0.738	38.7	0.0049
W6 x 6	25	152x152x37	6	84	20	0.912	24.4	0.0095
W6 x 6	20	152x152x30	5	84	18	0.900	30.1	0.0076
W6 x 6	15	152x152x23	5	84	16	0.889	39.5	0.0057
UB6 x 3 ¹ / ₂	11	152x89x16	4	54	16	0.638	40.0	0.0041
UB5 x 3	9	127x76x13	4	46	16	0.537	41.4	0.0033

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1





ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W40 x 12	327	† 1016x305x486	2.60	2.87	3.08	3.48
W40 x 12	294	† 1016x305x438	2.35	2.61	2.80	3.16
W40 x 12	264	† 1016x305x393	2.13	2.36	2.54	2.87
W40 x 12	235	† 1016x305x350	1.90	2.11	2.27	2.57
W40 x 12	211	† 1016x305x314	1.72	1.91	2.06	2.33
W40 x 12	183	† 1016x305x272	1.50	1.66	1.80	2.04
W40 x 12	167	† 1016x305x249	1.38	1.53	1.66	1.88
W40 x 12	149	† 1016x305x222	1.24	1.37	1.49	1.69
# W36 x 16½	359	† 914x419x534	2.60	2.96	3.31	3.91
# W36 x 16½	328	† 914x419x488	2.39	2.72	3.05	3.61
# W36 x 16½	300	† 914x419x447	2.20	2.50	2.81	3.33
# W36 x 16½	280	† 914x419x418	2.06	2.35	2.64	3.13
# W36 x 16½	260	914x419x388	1.92	2.19	2.46	2.92
# W36 x 16½	245	† 914x419x365	1.81	2.07	2.33	2.76
# W36 x 16½	230	914x419x343	1.71	1.95	2.19	2.60
W36 x 16½	361		2.59	2.95	3.29	3.89
W36 x 16½	330		2.38	2.71	3.03	3.58
W36 x 16½	302		2.19	2.49	2.79	3.30
W36 x 16½	282		2.05	2.34	2.62	3.10
W36 x 16½	262		1.91	2.18	2.45	2.90
W36 x 16½	247		1.81	2.06	2.32	2.74
W36 x 16½	231		1.70	1.94	2.18	2.58
# W36 x 12	387	† 914x305x576	3.10	3.45	3.73	4.25
# W36 x 12	350	† 914x305x521	2.83	3.15	3.42	3.89
# W36 x 12	318	† 914x305x474	2.59	2.89	3.14	3.58
# W36 x 12	286	† 914x305x425	2.35	2.61	2.85	3.24
W36 x 12	256	† 914x305x381	2.12	2.36	2.58	2.94
W36 x 12	232	† 914x305x345	1.93	2.15	2.35	2.68
W36 x 12	210	† 914x305x313	1.76	1.96	2.15	2.45
W36 x 12	194	914x305x289	1.63	1.82	1.99	2.28
W36 x 12	182	† 914x305x271	1.54	1.72	1.88	2.15
W36 x 12	170	914x305x253	1.44	1.61	1.76	2.02
W36 x 12	160	† 914x305x238	1.36	1.52	1.66	1.90
W36 x 12	150	914x305x224	1.28	1.43	1.57	1.79
W36 x 12	135	914x305x201	1.16	1.29	1.42	1.63

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1





ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W33 x 15 ⁵ / ₄	387	† 838x400x576	2.91	3.31	3.71	4.39
W33 x 15 ⁵ / ₄	354	† 838x400x527	2.68	3.06	3.43	4.06
W33 x 15 ⁵ / ₄	318	† 838x400x473	2.42	2.76	3.10	3.68
W33 x 15 ⁵ / ₄	291	† 838x400x433	2.23	2.54	2.86	3.40
W33 x 15 ⁵ / ₄	263	† 838x400x392	2.03	2.32	2.61	3.10
W33 x 15 ⁵ / ₄	241	† 838x400x359	1.87	2.13	2.41	2.86
W33 x 15 ⁵ / ₄	221	† 838x400x329	1.72	1.97	2.22	2.64
W33 x 15 ⁵ / ₄	201	† 838x400x299	1.57	1.79	2.03	2.42
# W33 x 11 ¹ / ₂	219	† 838x292x326	1.94	2.16	2.37	2.71
# W33 x 11 ¹ / ₂	204	† 838x292x304	1.81	2.02	2.22	2.54
# W33 x 11 ¹ / ₂	187	† 838x292x278	1.67	1.87	2.05	2.34
W33 x 11 ¹ / ₂	169	† 838x292x251	1.52	1.69	1.86	2.13
W33 x 11 ¹ / ₂	152	838x292x226	1.37	1.53	1.69	1.93
W33 x 11 ¹ / ₂	141	† 838x292x210	1.28	1.43	1.57	1.81
W33 x 11 ¹ / ₂	130	838x292x193	1.18	1.32	1.46	1.67
W33 x 11 ¹ / ₂	118	838x292x176	1.08	1.21	1.33	1.53
W30 x 15	326	† 762x381x484	2.65	3.02	3.40	4.06
W30 x 15	292	† 762x381x434	2.39	2.73	3.08	3.67
W30 x 15	261	† 762x381x389	2.16	2.47	2.79	3.33
W30 x 15	235	† 762x381x350	1.95	2.23	2.53	3.02
W30 x 15	211	† 762x381x314	1.76	2.02	2.29	2.74
W30 x 15	191	† 762x381x284	1.60	1.83	2.08	2.49
W30 x 15	173	† 762x381x257	1.46	1.67	1.90	2.28
W30 x 10 ¹ / ₂	148	† 762x267x220	1.47	1.64	1.80	2.06
W30 x 10 ¹ / ₂	132	762x267x196	1.31	1.47	1.61	1.85
W30 x 10 ¹ / ₂	124	† 762x267x185	1.24	1.38	1.52	1.75
W30 x 10 ¹ / ₂	116	762x267x173	1.17	1.30	1.44	1.65
W30 x 10 ¹ / ₂	108	† 762x267x161	1.08	1.21	1.34	1.54
W30 x 10 ¹ / ₂	99	762x267x147	0.998	1.12	1.23	1.42
W30 x 10 ¹ / ₂	90	762x267x134	0.908	1.02	1.12	1.29

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

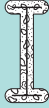



ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W27 x 14	307	† 686x356x457	2.70	3.09	3.48	4.16
W27 x 14	281	† 686x356x419	2.49	2.85	3.22	3.85
W27 x 14	258	† 686x356x384	2.30	2.63	2.98	3.57
W27 x 14	235	† 686x356x350	2.11	2.42	2.74	3.29
W27 x 14	217	† 686x356x323	1.96	2.25	2.55	3.05
W27 x 14	194	† 686x356x289	1.76	2.02	2.30	2.76
W27 x 14	178	† 686x356x265	1.62	1.86	2.12	2.55
W27 x 14	161	† 686x356x240	1.48	1.70	1.93	2.33
W27 x 14	146	† 686x356x217	1.35	1.54	1.76	2.12
# W27 x 10	221	† 686x254x329	2.28	2.55	2.79	3.21
# W27 x 10	201	† 686x254x299	2.09	2.34	2.57	2.96
# W27 x 10	182	† 686x254x271	1.91	2.14	2.34	2.70
# W27 x 10	159	† 686x254x237	1.68	1.89	2.07	2.39
W27 x 10	129	† 686x254x192	1.38	1.55	1.71	1.97
W27 x 10	114	686x254x170	1.23	1.38	1.53	1.76
W27 x 10	102	686x254x152	1.11	1.24	1.38	1.59
W27 x 10	94	686x254x140	1.02	1.15	1.27	1.47
W27 x 10	84	686x254x125	0.922	1.04	1.15	1.33
W24 x 12 ³ / ₄	306	† 610x324x455	2.93	3.36	3.77	4.51
W24 x 12 ³ / ₄	279	† 610x324x415	2.70	3.10	3.48	4.18
W24 x 12 ³ / ₄	250	† 610x324x372	2.45	2.81	3.16	3.79
W24 x 12 ³ / ₄	229	† 610x324x341	2.26	2.59	2.92	3.51
W24 x 12 ³ / ₄	207	† 610x324x307	2.05	2.36	2.67	3.20
W24 x 12 ³ / ₄	192	† 610x324x285	1.92	2.20	2.49	3.00
W24 x 12 ³ / ₄	176	† 610x324x262	1.77	2.03	2.31	2.77
W24 x 12 ³ / ₄	162	† 610x324x241	1.64	1.88	2.14	2.58
W24 x 12 ³ / ₄	146	† 610x324x217	1.48	1.71	1.94	2.35
W24 x 12 ³ / ₄	131	† 610x324x195	1.34	1.54	1.76	2.12
W24 x 12 ³ / ₄	117	† 610x324x174	1.20	1.38	1.58	1.91
W24 x 12 ³ / ₄	104	† 610x324x155	1.08	1.24	1.42	1.71
UB24 x 12	160	610x305x238	1.66	1.90	2.14	2.56
UB24 x 12	120	610x305x179	1.27	1.45	1.65	1.97
UB24 x 12	100	610x305x149	1.06	1.22	1.39	1.66

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1





ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
# W24 x 9	198	† 610x229x295	2.26	2.54	2.77	3.19
# W24 x 9	163	† 610x229x243	1.90	2.13	2.34	2.69
# W24 x 9	146	† 610x229x217	1.72	1.93	2.11	2.44
# W24 x 9	128	† 610x229x191	1.52	1.70	1.87	2.16
# W24 x 9	115	† 610x229x171	1.38	1.54	1.70	1.96
W24 x 9	103	† 610x229x153	1.24	1.39	1.54	1.77
W24 x 9	94	610x229x140	1.13	1.27	1.41	1.63
W24 x 9	84	610x229x125	1.02	1.14	1.27	1.47
W24 x 9	76	610x229x113	0.928	1.04	1.16	1.34
W24 x 9	68	610x229x101	0.834	0.937	1.04	1.21
W24 x 7	62	† 610x178x92	0.837	0.925	1.01	1.14
W24 x 7	55	† 610x178x82	0.747	0.826	0.898	1.01
# W21 x 12 ¹ / ₄	275	† 533x312x409	2.84	3.28	3.71	4.49
# W21 x 12 ¹ / ₄	248	† 533x312x370	2.60	3.00	3.40	4.12
# W21 x 12 ¹ / ₄	222	† 533x312x331	2.35	2.71	3.08	3.74
W21 x 12 ¹ / ₄	201	† 533x312x300	2.15	2.48	2.82	3.43
W21 x 12 ¹ / ₄	182	† 533x312x272	1.96	2.27	2.59	3.15
W21 x 12 ¹ / ₄	166	† 533x312x248	1.80	2.08	2.38	2.89
W21 x 12 ¹ / ₄	147	† 533x312x219	1.60	1.85	2.12	2.59
W21 x 12 ¹ / ₄	132	† 533x312x196	1.45	1.67	1.92	2.35
W21 x 12 ¹ / ₄	122	† 533x312x182	1.34	1.55	1.79	2.19
W21 x 12 ¹ / ₄	111	† 533x312x165	1.23	1.42	1.64	2.01
W21 x 12 ¹ / ₄	101	† 533x312x150	1.12	1.30	1.50	1.84
W21 x 8 ¹ / ₄	93	† 533x210x138	1.24	1.40	1.54	1.80
W21 x 8 ¹ / ₄	83	533x210x123	1.11	1.25	1.39	1.62
W21 x 8 ¹ / ₄	73	533x210x109	0.989	1.11	1.24	1.44
W21 x 8 ¹ / ₄	68	533x210x101	0.924	1.04	1.16	1.35
W21 x 8 ¹ / ₄	62	533x210x92	0.847	0.954	1.06	1.24
W21 x 8 ¹ / ₄	55	533x210x82	0.756	0.852	0.949	1.11
W21 x 6 ¹ / ₂	57	† 533x165x85	0.853	0.946	1.03	1.17
W21 x 6 ¹ / ₂	50	† 533x165x74	0.755	0.838	0.913	1.04
W21 x 6 ¹ / ₂	44	† 533x165x66	0.670	0.744	0.811	0.922
W18 x 7 ¹ / ₂	71	† 457x191x106	1.08	1.22	1.36	1.59
W18 x 7 ¹ / ₂	65	457x191x97	0.989	1.12	1.25	1.46
W18 x 7 ¹ / ₂	60	457x191x89	0.919	1.04	1.16	1.36
W18 x 7 ¹ / ₂	55	457x191x82	0.848	0.960	1.07	1.26
W18 x 7 ¹ / ₂	50	457x191x74	0.772	0.873	0.978	1.15
UB18 x 7 ¹ / ₂	45	457x191x67	0.701	0.793	0.889	1.04

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1





ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W18 x 6	46	457x152x68	0.779	0.868	0.952	1.09
W18 x 6	40	457x152x60	0.682	0.760	0.835	0.955
W18 x 6	35	457x152x52	0.601	0.670	0.737	0.844
W16 x 7	57	† 406x178x85	0.954	1.08	1.21	1.43
W16 x 7	50	406x178x75	0.846	0.961	1.08	1.27
W16 x 7	45	406x178x67	0.767	0.870	0.977	1.15
W16 x 7	40	406x178x60	0.680	0.772	0.868	1.02
W16 x 7	36	406x178x53	0.615	0.698	0.785	0.927
W16 x 5½	31	406x140x46	0.590	0.660	0.726	0.833
W16 x 5½	26	406x140x39	0.504	0.563	0.620	0.713
W14 x 16	730	† 356x406x1086	6.68	7.99	9.05	11.6
W14 x 16	665	† 356x406x990	6.20	7.43	8.46	10.9
W14 x 16	605	† 356x406x900	5.75	6.89	7.89	10.2
W14 x 16	550	† 356x406x818	5.31	6.36	7.34	9.52
W14 x 16	500	† 356x406x744	4.90	5.89	6.82	8.88
W14 x 16	455	† 356x406x677	4.53	5.44	6.34	8.28
W14 x 16	426	356x406x634	4.28	5.15	6.02	7.88
W14 x 16	398	† 356x406x592	4.04	4.86	5.70	7.47
W14 x 16	370	356x406x551	3.80	4.57	5.38	7.07
W14 x 16	342	† 356x406x509	3.54	4.27	5.04	6.64
W14 x 16	311	† 356x406x463	3.26	3.93	4.66	6.15
W14 x 16	283	† 356x406x421	3.00	3.62	4.31	5.71
UC14 x 16	264	356x406x393	2.82	3.40	4.05	5.38
W14 x 16	257	† 356x406x382	2.75	3.32	3.96	5.26
W14 x 16	233	† 356x406x347	2.52	3.04	3.65	4.85
UC14 x 16	228	356x406x340	2.47	2.98	3.58	4.77
W14 x 16	211	† 356x406x314	2.30	2.78	3.34	4.46
W14 x 16	193	356x406x287	2.12	2.56	3.09	4.13
W14 x 16	176	† 356x406x262	1.95	2.35	2.85	3.82
W14 x 16	159	356x406x237	1.77	2.14	2.60	3.49
W14 x 16	145	† 356x406x216	1.63	1.97	2.40	3.22
UC14 x 14½	136	356x368x202	1.57	1.90	2.30	3.06
W14 x 14½	132	† 356x368x196	1.53	1.85	2.24	2.99
W14 x 14½	120	† 356x368x179	1.41	1.70	2.06	2.75
W14 x 14½	109	† 356x368x162	1.28	1.54	1.88	2.51
UC14 x 14½	103	356x368x153	1.21	1.46	1.78	2.38
W14 x 14½	99	† 356x368x147	1.17	1.41	1.72	2.31
W14 x 14½	90	† 356x368x134	1.07	1.29	1.57	2.11
UC14 x 14½	87	356x368x129	1.03	1.24	1.52	2.04

For notes to tables, see page 30.

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1


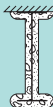


ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
UB14 x 6 ³ / ₄	45	356x171x67	0.827	0.945	1.07	1.27
W14 x 6 ³ / ₄	38	356x171x57	0.704	0.805	0.911	1.09
W14 x 6 ³ / ₄	34	356x171x51	0.633	0.724	0.820	0.979
W14 x 6 ³ / ₄	30	356x171x45	0.566	0.647	0.734	0.877
W14 x 5	26	356x127x39	0.561	0.629	0.693	0.799
W14 x 5	22	356x127x33	0.475	0.532	0.587	0.677
W12 x 12	336	† 305x305x500	4.07	4.85	5.56	7.14
W12 x 12	305	† 305x305x454	3.75	4.47	5.15	6.64
W12 x 12	279	† 305x305x415	3.47	4.15	4.80	6.21
W12 x 12	252	† 305x305x375	3.19	3.81	4.43	5.74
W12 x 12	230	† 305x305x342	2.94	3.53	4.11	5.35
W12 x 12	210	† 305x305x313	2.72	3.26	3.82	4.98
W12 x 12	190	305x305x283	2.49	2.98	3.51	4.58
W12 x 12	170	† 305x305x253	2.25	2.70	3.19	4.18
UC12 x 12	161	305x305x240	2.15	2.58	3.05	4.00
W12 x 12	152	† 305x305x226	2.04	2.45	2.90	3.81
W12 x 12	136	† 305x305x202	1.84	2.21	2.63	3.46
UC12 x 12	133	305x305x198	1.80	2.17	2.58	3.40
W12 x 12	120	† 305x305x179	1.64	1.97	2.36	3.11
W12 x 12	106	305x305x158	1.46	1.76	2.11	2.78
W12 x 12	96	† 305x305x143	1.33	1.61	1.93	2.55
UC12 x 12	92	305x305x137	1.28	1.54	1.85	2.46
W12 x 12	87	† 305x305x129	1.21	1.46	1.76	2.34
W12 x 12	79	305x305x118	1.11	1.34	1.61	2.14
W12 x 12	72	† 305x305x107	1.01	1.22	1.48	1.96
W12 x 12	65	305x305x97	0.922	1.11	1.35	1.79
• UB12 x 6 ¹ / ₂	36	305x165x54	0.732	0.844	0.964	1.17
• UB12 x 6 ¹ / ₂	31	305x165x46	0.630	0.727	0.832	1.01
• UB12 x 6 ¹ / ₂	27	305x165x40	0.554	0.639	0.733	0.890
UB12 x 5	32	305x127x48	0.752	0.849	0.939	1.10
UB12 x 5	28	305x127x42	0.661	0.747	0.828	0.967
UB12 x 5	25	305x127x37	0.588	0.665	0.738	0.862
W12 x 4	22	305x102x33	0.555	0.617	0.674	0.769
W12 x 4	19	305x102x28	0.483	0.538	0.588	0.671
W12 x 4	16	305x102x24	0.410	0.457	0.500	0.571

For notes to tables, see page 30.

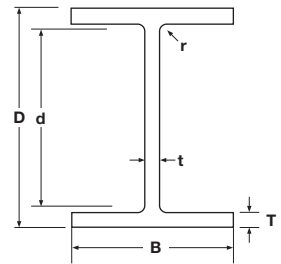
W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W10 x 10	112	254x254x167	1.81	2.17	2.57	3.38
W10 x 10	100	† 254x254x149	1.63	1.96	2.33	3.07
W10 x 10	88	254x254x132	1.45	1.75	2.09	2.76
W10 x 10	77	† 254x254x115	1.28	1.54	1.85	2.45
UC10 x 10	72	254x254x107	1.20	1.45	1.74	2.30
W10 x 10	68	† 254x254x101	1.14	1.38	1.66	2.20
W10 x 10	60	254x254x89	1.02	1.22	1.48	1.96
W10 x 10	54	† 254x254x80	0.915	1.10	1.34	1.78
W10 x 10	49	254x254x73	0.837	1.01	1.22	1.63
W10 x 5¼	30	† 254x146x45	0.698	0.807	0.924	1.12
UB10 x 5¼	29	254x146x43	0.678	0.785	0.900	1.10
W10 x 5¼	26	† 254x146x39	0.606	0.701	0.804	0.980
UB10 x 5¼	25	254x146x37	0.589	0.682	0.784	0.958
W10 x 5¼	22	† 254x146x33	0.519	0.601	0.690	0.843
UB10 x 5¼	21	254x146x31	0.500	0.579	0.668	0.818
W10 x 4	19	254x102x28	0.537	0.606	0.670	0.780
W10 x 4	17	254x102x25	0.482	0.543	0.601	0.701
W10 x 4	15	254x102x22	0.428	0.483	0.535	0.624
W8 x 8	67	† 203x203x100	1.36	1.63	1.93	2.54
W8 x 8	58	203x203x86	1.19	1.43	1.71	2.26
W8 x 8	48	203x203x71	1.00	1.20	1.44	1.91
W8 x 8	40	203x203x59	0.840	1.01	1.22	1.62
W8 x 8	35	203x203x52	0.746	0.899	1.09	1.45
W8 x 8	31	203x203x46	0.661	0.797	0.965	1.29
W8 x 5¼	21	† 203x133x31	0.575	0.672	0.777	0.965
UB8 x 5¼	20	203x133x30	0.554	0.648	0.750	0.934
W8 x 5¼	18	† 203x133x27	0.492	0.575	0.666	0.828
UB8 x 5¼	17	203x133x25	0.468	0.547	0.636	0.793
UB8 x 4	16	203x102x23	0.498	0.572	0.645	0.774
UB7 x 4	13	178x102x19	0.440	0.510	0.582	0.711
W6 x 6	25	152x152x37	0.697	0.840	1.01	1.33
W6 x 6	20	152x152x30	0.566	0.682	0.821	1.09
W6 x 6	15	152x152x23	0.432	0.521	0.630	0.839
UB6 x 3½	11	152x89x16	0.426	0.495	0.564	0.691
UB5 x 3	9	127x76x13	0.412	0.479	0.544	0.670

For notes to tables, see page 30.



UNIVERSAL BEARING PILING

in accordance with ASTM A6/A6M and BS4: Part 1

ASTM Size in	Mass per foot lb	Metric/BS4 Equivalent	Mass per metre kg	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx cm ⁴	Axis yy cm ⁴
HP14 x14½	117	356x368x174	174	361	378	20.4	20.4	15.2	290	9.28	14.2	51040	18460
HP14 x14½	102	356x368x152	152	356	376	17.9	17.9	15.2	290	10.5	16.2	44000	15880
HP14 x14½	89	356x368x133	133	351	373	15.6	15.6	15.2	290	11.9	18.5	37650	13580
HP14 x14½	73	356x368x109	109	346	370	12.8	12.8	15.2	290	14.4	22.6	30480	10860
UP12 x12	150	305x305x223	223	338	326	30.3	30.4	15.2	247	5.36	8.14	52700	17580
UP12 x12	125	305x305x186	186	328	321	25.5	25.6	15.2	247	6.27	9.67	42610	14140
UP12 x12	100	305x305x149	149	319	316	20.6	20.7	15.2	247	7.63	12.0	33070	10910
HP12 x12	84	305x305x126	125	312	312	17.4	17.4	15.2	247	8.97	14.2	27100	8823
HP12 x12	74	305x305x110	110	308	310	15.4	15.5	15.2	247	10.0	16.0	23650	7707
HP12 x12	63	305x305x95	93	303	308	13.1	13.1	15.2	247	11.8	18.8	19660	6387
UP12 x12	59	305x305x88	88	302	308	12.4	12.3	15.2	247	12.5	19.9	18420	5984
HP12 x12	53	305x305x79	79	299	306	11.0	11.0	15.2	247	13.9	22.4	16340	5278
HP10 x 10	57	254x254x85	85	254	260	14.4	14.4	12.7	200	9.04	13.9	12350	4245
UP10 x10	48	254x254x71	71	250	258	12.0	12.0	12.7	200	10.8	16.7	10070	3439
HP10 x 10	42	254x254x63	63	246	256	10.5	10.7	12.7	200	12.0	19.1	8766	2995
HP8 x 8	36	203x203x54	54	204	207	11.3	11.3	10.2	161	9.16	14.2	4980	1673
UP8 x 8	30	203x203x45	45	200	206	9.5	9.5	10.2	161	10.8	16.9	4100	1384

Notes

† These sizes are in addition to the standard BS4 range.

Sections additional to ASTM range.

- For the beam size 12 x 6½ the weights and dimensions shown are those in BS4: Part 1 and differ slightly from the W12 x 6½ section shown in ASTM A6/A6M.

The Dimension $n = \frac{D-d}{2}$ to the nearest 2mm above. The Dimension $C = t/2 + 2\text{mm}$ to the nearest 1mm.

The Dimension N is based upon the outstand from web face to flange edge + 10mm, to the nearest 2mm above and makes due allowance for rolling tolerance.

This brochure is designed to give information on the product range available from Corus Construction & Industrial.

Any enquiries, with regards to volume and production, should be referred to the Account Manager.

Structural sections in accordance with ASTM specifications

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	ASTM Size in	Mass per foot lb
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
15.2	9.12	2824	976	3188	1497	0.821	15.8	5.37	332	222	HP14 x14 ^{1/2}	117
15.1	9.05	2469	845	2769	1293	0.821	17.8	4.55	225	194	HP14 x14 ^{1/2}	102
14.9	8.97	2144	727	2391	1112	0.821	20.1	3.82	150	169	HP14 x14 ^{1/2}	89
14.8	8.86	1760	587	1947	895	0.823	24.2	3.02	84.1	138	HP14 x14 ^{1/2}	73
13.6	7.87	3119	1079	3653	1680	0.826	9.55	4.15	943	284	UP12 x12	150
13.4	7.73	2596	881	3003	1366	0.827	11.1	3.24	560	237	UP12 x12	125
13.2	7.58	2076	691	2370	1065	0.828	13.5	2.42	295	190	UP12 x12	100
13.1	7.45	1735	566	1963	870	0.830	15.8	1.92	177	159	HP12 x12	84
13.0	7.40	1536	497	1727	763	0.830	17.6	1.65	124	141	HP12 x12	74
12.9	7.33	1297	415	1448	635	0.831	20.5	1.34	76.4	119	HP12 x12	63
12.8	7.31	1221	389	1361	595	0.830	21.6	1.25	64.2	112	UP12 x12	59
12.8	7.27	1092	345	1211	526	0.831	24.0	1.10	46.2	100	HP12 x12	53
10.7	6.24	971	326	1098	501	0.825	15.6	0.611	83.0	109	HP10 x 10	57
10.6	6.17	807	267	904	409	0.826	18.4	0.486	48.4	90.4	UP10 x10	48
10.5	6.13	712	234	793	358	0.828	20.5	0.416	33.8	79.7	HP10 x 10	42
8.55	4.95	488	162	552	249	0.827	15.9	0.155	32.1	68.2	HP8 x 8	36
8.46	4.92	410	134	459	206	0.827	18.6	0.126	19.2	57.2	UP8 x 8	30

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