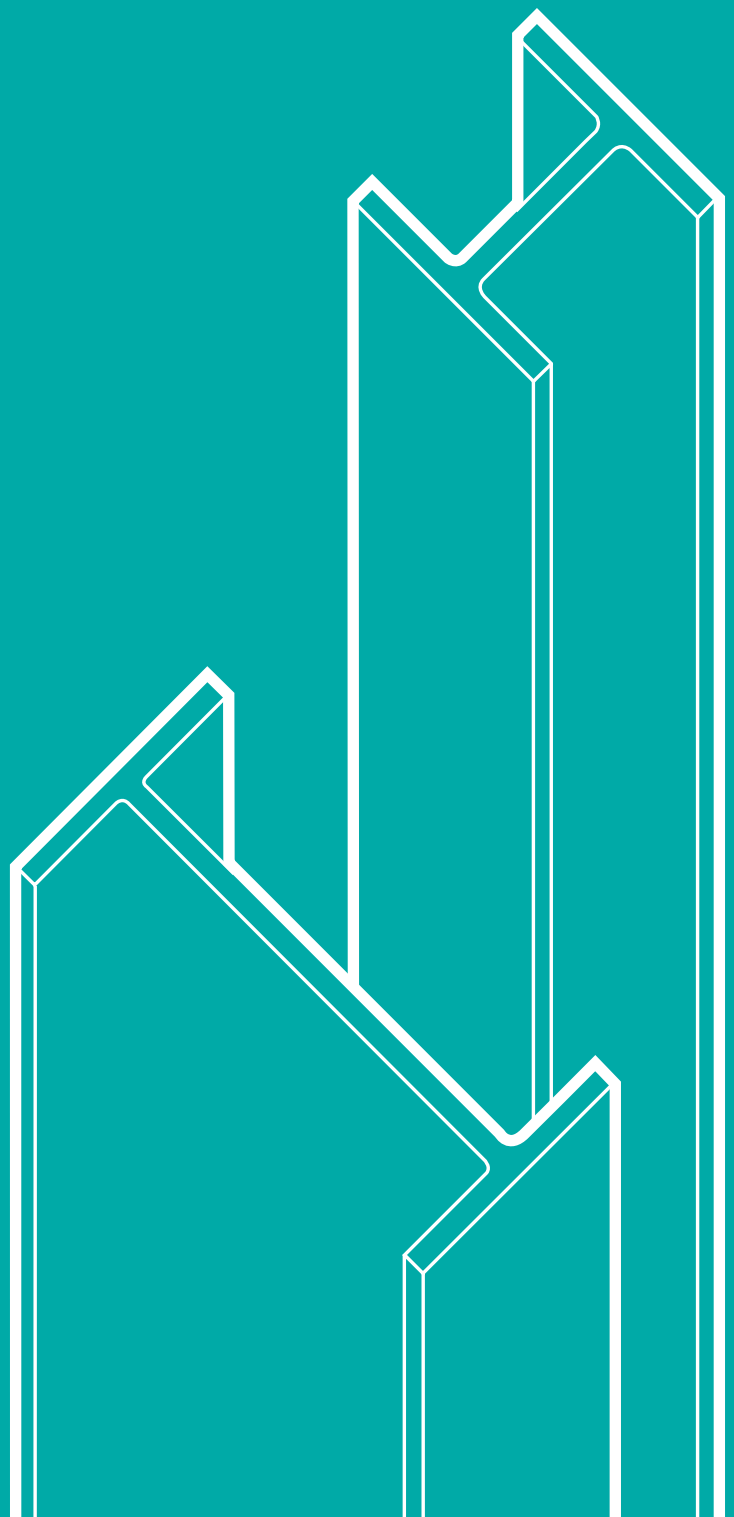


Structural sections - metric

in accordance with ASTM specifications



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Universal Bearing piling to ASTM A6/A6M & BS4: Part 1		
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Offices and agents for Corus exports	31-32
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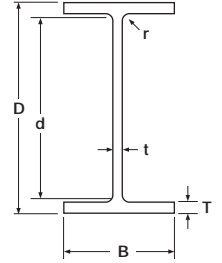
email: corusconstruction@corusgroup.com
 website: www.corusconstructionandindustrial.com

Please note that an Imperial version is also available.

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

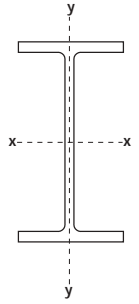
Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size 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
W40 x 12	327	† 1016 x 305 x 487	486.6	1036.1	308.5	30.0	54.1	30.0	867.9	2.85	28.9	1021400	26720
W40 x 12	294	† 1016 x 305 x 437	436.9	1025.9	305.4	26.9	49.0	30.0	867.9	3.12	32.3	909900	23450
W40 x 12	264	† 1016 x 305 x 393	392.7	1016.0	303.0	24.4	43.9	30.0	868.2	3.45	35.6	807700	20500
W40 x 12	235	† 1016 x 305 x 349	349.4	1008.1	302.0	21.1	40.0	30.0	868.1	3.78	41.1	723100	18460
W40 x 12	211	† 1016 x 305 x 314	314.3	1000.0	300.0	19.1	35.9	30.0	868.2	4.18	45.5	644200	16230
W40 x 12	183	† 1016 x 305 x 272	272.3	990.1	300.0	16.5	31.0	30.0	868.1	4.84	52.6	554000	14000
W40 x 12	167	† 1016 x 305 x 249	248.7	980.2	300.0	16.5	26.0	30.0	868.2	5.77	52.6	481300	11750
W40 x 12	149	† 1016 x 305 x 222	222.0	970.3	300.0	16.0	21.1	30.0	868.1	7.11	54.3	408000	9546
W36 x 16½	359	† 914 x 419 x 534	533.8	950.0	424.9	28.4	51.1	24.1	799.6	4.16	28.2	1031100	65510
W36 x 16½	328	† 914 x 419 x 488	488.0	942.1	422.4	25.9	47.0	24.1	799.9	4.49	30.9	936400	59180
W36 x 16½	300	† 914 x 419 x 447	447.1	932.7	423.0	24.0	42.7	24.1	799.1	4.95	33.3	846300	53980
W36 x 16½	280	† 914 x 419 x 418	418.1	928.0	422.0	22.5	39.9	24.1	800.0	5.29	35.6	787600	50070
W36 x 16½	260	914 x 419 x 388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	5.74	37.4	719600	45440
W36 x 16½	245	† 914 x 419 x 365	364.8	916.0	419.4	20.3	34.3	24.1	799.2	6.11	39.4	671100	42240
W36 x 16½	230	914 x 419 x 343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	6.54	41.2	625800	39160
W36 x 12	386	† 914 x 305 x 576	575.4	992.9	321.8	36.1	65.0	19.1	824.7	2.48	22.8	1101000	36460
W36 x 12	349	† 914 x 305 x 521	520.8	980.7	318.8	33.0	58.9	19.1	824.7	2.71	25.0	981300	32080
W36 x 12	318	† 914 x 305 x 474	473.7	970.8	315.7	30.0	54.1	19.1	824.4	2.92	27.5	884600	28580
W36 x 12	285	† 914 x 305 x 425	425.3	960.9	312.8	26.9	49.0	19.1	824.7	3.19	30.7	787600	25140
W36 x 12	256	† 914 x 305 x 381	381.6	950.7	310.3	24.4	43.9	19.1	824.7	3.53	33.8	696900	21970
W36 x 12	232	† 914 x 305 x 345	345.1	942.9	307.9	22.1	39.9	19.1	824.9	3.86	37.3	625300	19500
W36 x 12	210	† 914 x 305 x 313	313.0	932.0	309.4	21.1	34.5	19.1	824.8	4.48	39.1	548900	17110
W36 x 12	194	914 x 305 x 289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	4.81	42.3	504200	15600
W36 x 12	182	† 914 x 305 x 271	271.7	923.0	307.0	18.4	30.0	19.1	824.8	5.12	44.8	471600	14520
W36 x 12	170	914 x 305 x 253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	5.47	47.7	436300	13300
W36 x 12	160	† 914 x 305 x 238	238.1	914.5	304.8	16.5	25.9	19.1	824.5	5.88	50.0	405800	12260
W36 x 12	150	914 x 305 x 224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	6.36	51.8	376400	11240
W36 x 12	135	914 x 305 x 201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	7.51	54.6	325300	9423
W33 x 15¾	387	† 838 x 400 x 576	576.0	913.0	411.0	32.0	57.9	17.8	761.6	3.55	23.8	1010700	67230
W33 x 15¾	354	† 838 x 400 x 527	527.6	903.0	409.0	29.5	53.1	17.8	761.2	3.85	25.8	914000	60730
W33 x 15¾	318	† 838 x 400 x 473	473.3	893.1	406.0	26.4	48.0	17.8	761.5	4.23	28.8	812300	53670
W33 x 15¾	291	† 838 x 400 x 433	433.3	885.0	404.0	24.4	43.9	17.8	761.6	4.60	31.2	735200	48350
W33 x 15¾	263	† 838 x 400 x 392	391.9	877.1	401.4	22.1	39.9	17.8	761.7	5.03	34.5	659300	43090
W33 x 15¾	241	† 838 x 400 x 359	359.4	868.0	403.0	21.1	35.6	17.8	761.2	5.66	36.1	590500	38900
W33 x 15¾	221	† 838 x 400 x 329	329.4	862.0	401.0	19.7	32.4	17.8	761.6	6.19	38.7	534700	34880
W33 x 15¾	201	† 838 x 400 x 299	299.3	855.4	399.9	18.2	29.2	17.8	761.4	6.85	41.8	479700	31170

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

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



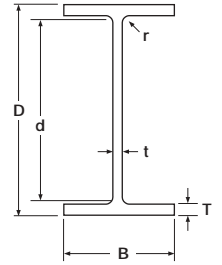
W SHAPES in accordance with ASTM A6/A6M

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	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
40.6	6.57	19720	1732	23200	2799	0.867	21.1	64.4	4299	620	327	W40 x 12
40.4	6.49	17740	1535	20760	2467	0.868	23.1	55.9	3185	557	294	W40 x 12
40.2	6.40	15900	1353	18540	2167	0.868	25.5	48.4	2330	500	264	W40 x 12
40.3	6.44	14350	1223	16590	1940	0.872	27.9	43.3	1718	445	235	W40 x 12
40.1	6.37	12880	1082	14850	1712	0.872	30.7	37.7	1264	400	211	W40 x 12
40.0	6.35	11190	934	12830	1469	0.873	35.0	32.2	835	347	183	W40 x 12
39.0	6.09	9821	784	11350	1244	0.861	39.9	26.8	582	317	167	W40 x 12
38.0	5.81	8409	636	9808	1019	0.850	45.7	21.5	390	283	149	W40 x 12
38.9	9.82	21710	3084	24830	4793	0.887	19.7	132	4515	680	359	W36 x 16 1/2
38.8	9.76	19880	2802	22640	4344	0.887	21.3	119	3502	622	328	W36 x 16 1/2
38.5	9.73	18150	2552	20590	3950	0.887	23.2	107	2675	570	300	W36 x 16 1/2
38.5	9.70	16970	2373	19210	3668	0.887	24.8	98.7	2194	533	280	W36 x 16 1/2
38.2	9.59	15630	2161	17670	3340	0.885	26.7	88.9	1734	494	260	W36 x 16 1/2
38.0	9.53	14650	2015	16540	3111	0.884	28.3	82.1	1442	465	245	W36 x 16 1/2
37.8	9.46	13730	1871	15480	2889	0.883	30.1	75.8	1193	437	230	W36 x 16 1/2
38.8	7.05	22180	2266	26260	3653	0.871	16.8	78.5	7127	733	386	W36 x 12
38.5	6.95	20010	2012	23590	3234	0.871	18.4	68.1	5337	663	349	W36 x 12
38.3	6.88	18220	1810	21370	2896	0.872	19.9	60.0	4101	603	318	W36 x 12
38.1	6.81	16390	1608	19120	2559	0.873	21.8	52.3	3027	542	285	W36 x 12
37.9	6.72	14660	1416	17030	2247	0.872	24.1	45.2	2199	486	256	W36 x 12
37.7	6.66	13260	1266	15340	2001	0.872	26.4	39.7	1649	440	232	W36 x 12
37.1	6.55	11780	1106	13640	1752	0.866	29.7	34.4	1163	399	210	W36 x 12
37.0	6.51	10880	1014	12570	1601	0.867	31.9	31.2	926	368	194	W36 x 12
36.9	6.48	10220	946	11780	1491	0.866	33.9	28.9	770	346	182	W36 x 12
36.8	6.42	9501	871	10940	1370	0.866	36.2	26.4	626	323	170	W36 x 12
36.6	6.36	8874	805	10220	1265	0.864	38.6	24.2	514	303	160	W36 x 12
36.3	6.27	8269	739	9535	1163	0.861	41.3	22.1	422	286	150	W36 x 12
35.7	6.07	7204	621	8352	982	0.854	46.8	18.4	291	256	135	W36 x 12
37.1	9.57	22140	3271	25540	5100	0.887	16.7	123	6126	734	387	W33 x 15 3/4
36.9	9.51	20240	2970	23250	4620	0.887	18.1	110	4743	672	354	W33 x 15 3/4
36.7	9.43	18190	2644	20770	4099	0.888	19.9	95.8	3485	603	318	W33 x 15 3/4
36.5	9.36	16610	2394	18900	3705	0.887	21.6	85.5	2683	552	291	W33 x 15 3/4
36.3	9.29	15030	2147	17030	3316	0.888	23.6	75.5	2011	499	263	W33 x 15 3/4
35.9	9.22	13610	1931	15400	2983	0.884	26.1	67.4	1496	458	241	W33 x 15 3/4
35.7	9.12	12410	1739	14020	2686	0.882	28.4	60.0	1146	420	221	W33 x 15 3/4
35.5	9.04	11220	1559	12650	2404	0.881	31.2	53.2	855	381	201	W33 x 15 3/4

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



W SHAPES in accordance with ASTM A6/A6M

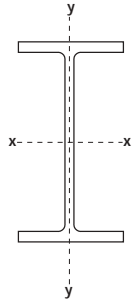
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size 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
W33 x 11½	219	† 838 x 292 x 326	326.6	877.1	297.2	22.1	39.9	17.8	761.7	3.72	34.5	513500	17540
W33 x 11½	204	† 838 x 292 x 304	303.3	871.2	295.7	20.6	37.1	17.8	761.4	3.99	37.0	473000	16050
W33 x 11½	187	† 838 x 292 x 278	278.6	865.1	294.1	19.1	34	17.8	761.5	4.33	39.9	430400	14470
W33 x 11½	169	† 838 x 292 x 251	250.7	859.0	292.1	17.0	31.0	17.8	761.4	4.71	44.8	386500	12910
W33 x 11½	152	838 x 292 x 226	226.5	850.9	293.8	16.1	26.8	17.8	761.7	5.48	47.3	339700	11360
W33 x 11½	141	† 838 x 292 x 210	210.8	846.1	293.0	15.4	24.4	17.8	761.7	6.00	49.5	310700	10260
W33 x 11½	130	838 x 292 x 194	193.8	840.7	292.4	14.7	21.7	17.8	761.7	6.74	51.8	279200	9066
W33 x 11½	118	838 x 292 x 176	175.9	834.9	291.7	14.0	18.8	17.8	761.7	7.76	54.4	246000	7799
W30 x 15	326	† 762 x 381 x 484	484.8	823.0	390.4	29.0	52.1	16.5	685.8	3.75	23.6	698000	51820
W30 x 15	292	† 762 x 381 x 434	433.9	813.1	387.4	25.9	47.0	16.5	686.1	4.12	26.5	618200	45650
W30 x 15	261	† 762 x 381 x 389	388.3	802.9	384.9	23.6	41.9	16.5	686.1	4.59	29.1	543500	39910
W30 x 15	235	† 762 x 381 x 350	349.4	795.0	382.0	21.1	38.1	16.5	685.8	5.01	32.5	485500	35460
W30 x 15	211	† 762 x 381 x 314	314.2	785.9	383.7	19.7	33.4	16.5	686.1	5.74	34.8	427100	31500
W30 x 15	191	† 762 x 381 x 284	283.9	779.0	382.0	18.0	30.1	16.5	685.8	6.35	38.1	381300	28000
W30 x 15	173	† 762 x 381 x 257	257.6	773.0	381.0	16.6	27.1	16.5	685.8	7.03	41.3	341700	25010
W30 x 10½	148	† 762 x 267 x 220	220.3	779.0	266.2	16.5	30.0	16.5	686.0	4.44	41.6	278200	9462
W30 x 10½	132	762 x 267 x 197	196.8	769.8	268.0	15.6	25.4	16.5	686.0	5.28	44.0	240000	8175
W30 x 10½	124	† 762 x 267 x 185	184.8	766.0	267.0	14.9	23.6	16.5	685.8	5.66	46.0	222800	7510
W30 x 10½	116	762 x 267 x 173	173.0	762.2	266.7	14.3	21.6	16.5	686.0	6.17	48.0	205300	6850
W30 x 10½	108	† 762 x 267 x 161	160.4	758.0	266.0	13.8	19.3	16.5	686.4	6.89	49.7	185900	6073
W30 x 10½	99	762 x 267 x 147	146.9	754.0	265.2	12.8	17.5	16.5	686.0	7.58	53.6	168500	5455
W30 x 10½	90	762 x 267 x 134	133.9	750.0	264.4	12.0	15.5	16.5	686.0	8.53	57.2	150700	4788
W27 x 14	307	† 686 x 356 x 457	457.0	752.0	366.9	29.5	53.1	15.2	615.4	3.45	20.9	545000	43860
W27 x 14	281	† 686 x 356 x 419	418.3	744.0	364.4	26.9	49.0	15.2	615.6	3.72	22.9	494400	39630
W27 x 14	258	† 686 x 356 x 384	383.9	736.1	362.4	24.9	45.0	15.2	615.7	4.03	24.7	448000	35780
W27 x 14	235	† 686 x 356 x 350	350.2	728.0	360.4	23.1	40.9	15.2	615.8	4.41	26.7	402300	31980
W27 x 14	217	† 686 x 356 x 323	323.0	722.1	358.5	21.1	38.1	15.2	615.5	4.70	29.2	369300	29310
W27 x 14	194	† 686 x 356 x 289	288.2	714.0	356.4	19.0	34.0	15.2	615.6	5.24	32.4	325100	25690
W27 x 14	178	† 686 x 356 x 265	264.5	706.4	357.8	18.4	30.2	15.2	615.6	5.92	33.5	290600	23090
W27 x 14	161	† 686 x 356 x 240	239.9	700.8	356.1	16.8	27.4	15.2	615.6	6.50	36.6	261100	20650
W27 x 14	146	† 686 x 356 x 217	217.8	695.0	355.0	15.4	24.8	15.2	615.0	7.16	39.9	234300	18510

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

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



W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

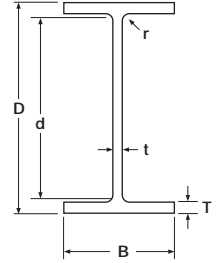
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
35.1	6.49	11710	1180	13550	1863	0.874	24.4	30.7	1569	416	219	W33 x 11½
35.0	6.45	10860	1086	12530	1710	0.874	26.1	27.9	1265	386	204	W33 x 11½
34.8	6.38	9950	984	11450	1547	0.874	28.3	25.0	983	355	187	W33 x 11½
34.8	6.36	8999	884	10300	1383	0.875	30.9	22.1	735	319	169	W33 x 11½
34.3	6.27	7985	773	9155	1211	0.870	35.0	19.3	514	289	152	W33 x 11½
34.0	6.18	7344	700	8429	1098	0.867	37.9	17.3	405	268	141	W33 x 11½
33.6	6.06	6641	620	7640	974	0.862	41.6	15.2	306	247	130	W33 x 11½
33.1	5.90	5893	535	6808	842	0.856	46.5	13.0	221	224	118	W33 x 11½
33.6	9.16	16960	2655	19510	4126	0.888	16.7	77.0	4233	618	326	W30 x 15
33.4	9.09	15210	2357	17380	3651	0.889	18.3	67.0	3091	553	292	W30 x 15
33.2	8.98	13540	2074	15410	3207	0.888	20.3	57.8	2216	495	261	W30 x 15
33.0	8.93	12210	1856	13820	2863	0.889	22.2	50.8	1650	445	235	W30 x 15
32.7	8.87	10870	1642	12270	2531	0.886	25.0	44.6	1161	400	211	W30 x 15
32.5	8.80	9789	1466	11020	2257	0.885	27.5	39.3	858	362	191	W30 x 15
32.3	8.73	8841	1313	9929	2019	0.884	30.3	34.8	638	328	173	W30 x 15
31.5	5.81	7142	711	8197	1114	0.875	28.9	13.3	605	281	148	W30 x 10½
30.9	5.71	6234	610	7167	958	0.869	33.2	11.3	404	251	132	W30 x 10½
30.8	5.65	5817	563	6686	884	0.867	35.4	10.3	333	235	124	W30 x 10½
30.5	5.58	5387	514	6198	807	0.864	38.1	9.4	267	220	116	W30 x 10½
30.2	5.45	4904	457	5661	719	0.859	41.5	8.3	207	204	108	W30 x 10½
30.0	5.40	4470	411	5156	647	0.858	45.2	7.4	159	187	99	W30 x 10½
29.7	5.30	4018	362	4644	570	0.854	49.8	6.5	119	171	90	W30 x 10½
30.6	8.68	14490	2391	16760	3718	0.889	14.8	53.6	4157	582	307	W27 x 14
30.5	8.62	13290	2175	15280	3373	0.890	15.9	47.9	3244	533	281	W27 x 14
30.3	8.55	12170	1975	13930	3058	0.889	17.2	42.7	2523	489	258	W27 x 14
30.0	8.47	11050	1775	12600	2745	0.888	18.8	37.7	1915	446	235	W27 x 14
30.0	8.44	10230	1635	11610	2523	0.890	20.1	34.3	1532	411	217	W27 x 14
29.8	8.37	9107	1442	10290	2220	0.889	22.3	29.7	1095	367	194	W27 x 14
29.4	8.28	8227	1291	9290	1990	0.885	24.7	26.4	811	337	178	W27 x 14
29.2	8.22	7452	1160	8387	1785	0.884	27.0	23.4	609	306	161	W27 x 14
29.1	8.17	6744	1043	7568	1603	0.884	29.6	20.8	456	277	146	W27 x 14

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

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

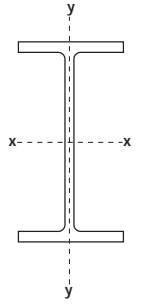
Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size 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
W27 x 10	221	† 686 x 254 x 329	328.3	739.9	264.8	25.9	47	15.2	615.5	2.82	23.8	359400	14640
W27 x 10	201	† 686 x 254 x 299	299.8	732.0	262.8	23.9	42.9	15.2	615.8	3.06	25.8	323800	13060
W27 x 10	182	† 686 x 254 x 271	270.8	723.9	260.2	21.6	39.1	15.2	615.3	3.33	28.5	289300	11540
W27 x 10	159	† 686 x 254 x 237	236.0	714.0	257.8	19.1	34	15.2	615.6	3.79	32.2	247800	9750
W27 x 10	129	† 686 x 254 x 192	191.4	702.0	254.0	15.5	27.9	15.2	615.8	4.55	39.7	198000	7643
W27 x 10	114	686 x 254 x 170	170.2	692.9	255.8	14.5	23.7	15.2	615.1	5.40	42.4	170300	6630
W27 x 10	102	686 x 254 x 152	152.4	687.5	254.5	13.2	21.0	15.2	615.1	6.06	46.6	150400	5784
W27 x 10	94	686 x 254 x 140	140.1	683.5	253.7	12.4	19.0	15.2	615.1	6.68	49.6	136300	5183
W27 x 10	84	686 x 254 x 125	125.2	677.9	253.0	11.7	16.2	15.2	615.1	7.81	52.6	118000	4383
W24 x 12¾	306	† 610 x 324 x 455	455.0	689.4	340.0	32.0	57.9	16.5	540.6	2.94	16.9	445800	38090
W24 x 12¾	279	† 610 x 324 x 415	416.3	679.0	338.0	29.5	53.1	16.5	539.8	3.18	18.3	400500	34300
W24 x 12¾	250	† 610 x 324 x 372	373.0	669.0	334.9	26.4	48.0	16.5	540.0	3.49	20.5	353800	30140
W24 x 12¾	229	† 610 x 324 x 341	341.1	660.9	333.0	24.4	43.9	16.5	540.1	3.79	22.1	318900	27090
W24 x 12¾	207	† 610 x 324 x 307	308.2	653.0	330.4	22.1	39.9	16.5	540.2	4.14	24.4	284700	24040
W24 x 12¾	192	† 610 x 324 x 285	286.1	647.0	329.0	20.6	37.1	16.5	539.8	4.43	26.2	261400	22070
W24 x 12¾	176	† 610 x 324 x 262	261.9	641.0	327.0	19.0	34.0	16.5	540.0	4.81	28.4	236700	19850
W24 x 12¾	162	† 610 x 324 x 241	238.9	635.0	329.0	17.1	31.0	16.5	540.0	5.31	31.6	214900	18430
W24 x 12¾	146	† 610 x 324 x 217	218.6	628.0	328.0	16.5	27.7	16.5	539.6	5.92	32.7	191500	16320
W24 x 12¾	131	† 610 x 324 x 195	196.4	622.0	327.0	15.4	24.4	16.5	540.2	6.70	35.1	168600	14240
W24 x 12¾	117	† 610 x 324 x 174	175.0	616.0	325.0	14.0	21.6	16.5	539.8	7.52	38.6	147900	12370
W24 x 12¾	104	† 610 x 324 x 155	155.6	611.0	324.0	12.7	19.0	16.5	540.0	8.53	42.5	129700	10780
UB24 x 12	160	610 x 305 x 238	238.1	635.8	311.4	18.4	31.4	16.5	540.0	4.96	29.3	209500	15840
UB24 x 12	120	610 x 305 x 179	179.0	620.2	307.1	14.1	23.6	16.5	540.0	6.51	38.3	153000	11410
UB24 x 12	100	610 x 305 x 149	149.2	612.4	304.8	11.8	19.7	16.5	540.0	7.74	45.8	125900	9308
W24 x 9	198	† 610 x 229 x 295	295.1	667.0	240.5	25.9	47	12.7	547.6	2.56	21.1	259400	10980
W24 x 9	163	† 610 x 229 x 243	243.1	651.0	236.0	21.6	39.1	12.7	547.4	3.02	25.3	207900	8616
W24 x 9	146	† 610 x 229 x 217	218.2	643.1	234.1	19.6	35.1	12.7	547.5	3.33	27.9	183900	7543
W24 x 9	128	† 610 x 229 x 191	190.2	635.0	231.5	17	31	12.7	547.6	3.73	32.2	158800	6435
W24 x 9	114	† 610 x 229 x 171	171.6	628.9	230.0	15.5	27.9	12.7	547.7	4.12	35.3	141400	5677
W24 x 9	103	† 610 x 229 x 153	153.5	623.1	228.6	14.0	24.9	12.7	547.9	4.59	39.1	125000	4972
W24 x 9	94	610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	12.7	547.6	5.21	41.8	111800	4505
W24 x 9	84	610 x 229 x 125	125.1	612.2	229.0	11.9	19.6	12.7	547.6	5.84	46.0	98610	3932
W24 x 9	76	610 x 229 x 113	113.0	608.0	228.2	11.1	17.3	12.7	548.0	6.60	49.4	87450	3434
W24 x 9	68	610 x 229 x 101	101.2	602.6	227.6	10.5	14.8	12.7	547.6	7.69	52.2	75780	2915

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

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



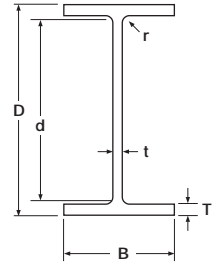
W SHAPES in accordance with ASTM A6/A6M

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	Mass per foot lb	Serial Size in
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	9715	1106	11390	1759	0.877	17.2	17.6	2186	418	221	W27 x 10
29.1	5.85	8847	994	10330	1577	0.877	18.6	15.5	1675	382	201	W27 x 10
29.0	5.78	7993	887	9282	1402	0.878	20.3	13.5	1260	345	182	W27 x 10
28.7	5.69	6940	756	8017	1191	0.877	23.0	11.3	840	301	159	W27 x 10
28.5	5.60	5641	602	6459	941	0.878	27.7	8.68	462	244	129	W27 x 10
28.0	5.53	4916	518	5631	811	0.872	31.8	7.42	308	217	114	W27 x 10
27.8	5.46	4374	455	5001	710	0.871	35.5	6.42	220	194	102	W27 x 10
27.6	5.39	3987	409	4558	638	0.868	38.7	5.72	169	178	94	W27 x 10
27.2	5.24	3481	346	3994	542	0.862	43.9	4.80	116	159	84	W27 x 10
27.7	8.11	12930	2241	15130	3498	0.889	12.2	38.0	4940	580	306	W24 x 12½
27.5	8.04	11800	2030	13720	3162	0.889	13.2	33.6	3824	530	279	W24 x 12½
27.3	7.97	10580	1800	12220	2795	0.890	14.5	29.1	2808	475	250	W24 x 12½
27.1	7.90	9650	1627	11090	2523	0.890	15.7	25.8	2162	435	229	W24 x 12½
26.9	7.82	8719	1455	9964	2251	0.890	17.1	22.6	1619	393	207	W24 x 12½
26.8	7.78	8081	1341	9200	2072	0.890	18.2	20.5	1305	364	192	W24 x 12½
26.6	7.71	7385	1214	8374	1872	0.890	19.8	18.3	1008	334	176	W24 x 12½
26.6	7.78	6768	1120	7630	1722	0.891	21.5	16.8	768	304	162	W24 x 12½
26.2	7.65	6099	995	6873	1532	0.887	23.7	14.7	572	279	146	W24 x 12½
26.0	7.54	5421	871	6099	1341	0.884	26.5	12.7	407	250	131	W24 x 12½
25.8	7.45	4801	761	5387	1171	0.882	29.6	10.9	288	223	117	W24 x 12½
25.6	7.38	4245	666	4753	1023	0.881	33.2	9.45	202	198	104	W24 x 12½
26.3	7.23	6589	1017	7486	1574	0.886	21.3	14.5	785	303	160	UB24 x 12
25.9	7.07	4935	743	5548	1144	0.886	27.7	10.2	340	228	120	UB24 x 12
25.7	7.00	4111	611	4594	937	0.886	32.7	8.17	200	190	100	UB24 x 12
26.3	5.41	7778	913	9173	1457	0.878	15.4	10.6	1952	376	198	W24 x 9
25.9	5.27	6388	730	7457	1157	0.878	18.2	8.07	1124	310	163	W24 x 9
25.7	5.21	5718	644	6643	1018	0.877	20.0	6.97	819	278	146	W24 x 9
25.6	5.15	5001	556	5769	874	0.879	22.5	5.87	558	242	128	W24 x 9
25.4	5.10	4497	494	5169	774	0.878	24.8	5.13	411	219	114	W24 x 9
25.3	5.04	4012	435	4595	680	0.878	27.6	4.45	295	195	103	W24 x 9
25.0	5.03	3622	391	4142	611	0.875	30.6	3.99	216	178	94	W24 x 9
24.9	4.97	3221	343	3676	535	0.873	34.1	3.45	154	159	84	W24 x 9
24.6	4.88	2877	301	3284	469	0.870	38.0	3.00	111	144	76	W24 x 9
24.2	4.75	2515	256	2881	400	0.864	43.1	2.52	77.0	129	68	W24 x 9

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



W SHAPES in accordance with ASTM A6/A6M

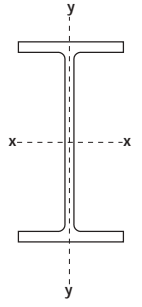
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size 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
W24 x 7	62	† 610 x 178 x 92	92.3	603.0	179.0	10.9	15.0	12.7	547.6	5.97	50.2	64630	1441
W24 x 7	55	† 610 x 178 x 82	81.9	599.0	178.0	10.0	12.8	12.7	548.0	6.95	54.8	55980	1209
W21 x 12½	275	† 533 x 312 x 409	409.0	612.9	327.4	31	55.6	12.7	476.3	2.94	15.4	317100	32650
W21 x 12½	248	† 533 x 312 x 370	369.4	603.0	324.4	28.2	50.5	12.7	476.6	3.21	16.9	281300	28830
W21 x 12½	223	† 533 x 312 x 331	331.2	593.0	322.0	25.4	45.5	12.7	476.6	3.54	18.8	247700	25390
W21 x 12½	201	† 533 x 312 x 300	299.5	585.0	319.0	23.1	41.4	12.7	476.8	3.85	20.6	220700	22450
W21 x 12½	182	† 533 x 312 x 272	271.3	577.0	317.0	21.1	37.6	12.7	476.4	4.22	22.6	196700	20000
W21 x 12½	166	† 533 x 312 x 248	246.6	571.0	315.0	19.0	34.5	12.7	476.6	4.57	25.1	177500	18000
W21 x 12½	147	† 533 x 312 x 219	218.9	560.0	318.0	18.3	29.2	12.7	476.2	5.45	26.0	151000	15680
W21 x 12½	132	† 533 x 312 x 196	196.5	554.0	316.0	16.5	26.3	12.7	476.0	6.01	28.8	134000	13850
W21 x 12½	122	† 533 x 312 x 182	181.7	551.0	315.0	15.2	24.4	12.7	476.8	6.45	31.4	123500	12730
W21 x 12½	111	† 533 x 312 x 165	165.3	546.0	313.0	14.0	22.2	12.7	476.2	7.05	34.0	111000	11360
W21 x 12½	101	† 533 x 312 x 150	150.6	543.0	312.0	12.7	20.3	12.7	477.0	7.68	37.6	100800	10290
W21 x 8¼	93	† 533 x 210 x 138	138.3	549.0	214.0	14.7	23.6	12.7	476.4	4.53	32.4	86080	3870
W21 x 8¼	83	533 x 210 x 122	122.0	544.5	212.0	12.7	21.3	12.7	476.5	4.98	37.5	76070	3392
W21 x 8¼	73	533 x 210 x 109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1	66820	2943
W21 x 8¼	68	533 x 210 x 101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	6.03	44.1	61520	2692
W21 x 8¼	62	533 x 210 x 92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	6.71	47.2	55230	2389
UB21 x 8¼	55	533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	12.7	476.5	7.91	49.6	47540	2007
W21 x 6½	57	† 533 x 165 x 85	84.7	535.0	166.0	10.3	16.5	12.7	476.6	5.03	46.3	48540	1263
W21 x 6½	50	† 533 x 165 x 74	74.7	529.0	166.0	9.7	13.6	12.7	476.4	6.10	49.1	41060	1042
W21 x 6½	44	† 533 x 165 x 66	65.7	525.0	165.0	8.9	11.4	12.7	476.8	7.24	53.6	35060	857
W18 x 7½	71	† 457 x 191 x 106	106.1	469.0	194.0	12.6	20.6	12.7	402.4	4.71	31.9	49040	2515
W18 x 7½	65	457 x 191 x 98	98.3	467.2	192.8	11.4	19.6	10.2	407.6	4.92	35.8	45730	2347
W18 x 7½	60	457 x 191 x 89	89.3	463.4	191.9	10.5	17.7	10.2	407.6	5.42	38.8	41020	2089
W18 x 7½	55	457 x 191 x 82	82.0	460.0	191.3	9.9	16.0	10.2	407.6	5.98	41.2	37050	1871
W18 x 7½	50	457 x 191 x 74	74.3	457.0	190.4	9.0	14.5	10.2	407.6	6.57	45.3	33320	1671
UB18 x 7½	45	457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	10.2	407.6	7.48	48.0	29380	1452
W18 x 6	46	457 x 152 x 67	67.2	458.0	153.8	9.0	15.0	10.2	407.6	5.13	45.3	28930	913
W18 x 6	40	457 x 152 x 60	59.8	454.6	152.9	8.1	13.3	10.2	407.6	5.75	50.3	25500	795
W18 x 6	35	457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	10.2	407.6	6.99	53.6	21370	645
W16 x 7	57	† 406 x 178 x 85	85.0	417.0	181.0	10.9	18.2	10.2	360.2	4.97	33.0	31540	1803
W16 x 7	50	406 x 178 x 74	74.2	412.8	179.5	9.5	16.0	10.2	360.4	5.61	37.9	27310	1545
W16 x 7	45	406 x 178 x 67	67.1	409.4	178.8	8.8	14.3	10.2	360.4	6.25	41.0	24330	1365
W16 x 7	40	406 x 178 x 60	60.1	406.4	177.9	7.9	12.8	10.2	360.4	6.95	45.6	21600	1203
W16 x 7	36	406 x 178 x 54	54.1	402.6	177.7	7.7	10.9	10.2	360.4	8.15	46.8	18720	1021

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

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



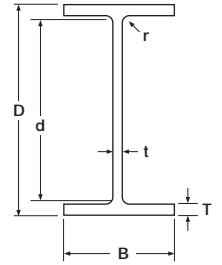
W SHAPES in accordance with ASTM A6/A6M

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	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
23.4	3.50	2144	161	2513	258	0.848	42.8	1.25	71.0	118	62	W24 x 7
23.2	3.40	1869	136	2197	218	0.843	48.5	1.04	48.8	104	55	W24 x 7
24.7	7.92	10350	1994	12130	3103	0.890	11.2	25.4	4135	521	275	W21 x 12 1/4
24.4	7.83	9331	1777	10860	2759	0.890	12.2	22.0	3095	471	248	W21 x 12 1/4
24.2	7.76	8355	1577	9656	2442	0.890	13.4	19.0	2263	422	223	W21 x 12 1/4
24.1	7.67	7547	1408	8670	2175	0.890	14.6	16.6	1700	382	201	W21 x 12 1/4
23.9	7.61	6820	1262	7792	1947	0.890	15.9	14.6	1277	346	182	W21 x 12 1/4
23.8	7.57	6217	1143	7062	1759	0.891	17.2	13.0	977	314	166	W21 x 12 1/4
23.3	7.50	5394	986	6114	1520	0.884	19.8	11.0	642	279	147	W21 x 12 1/4
23.1	7.44	4837	877	5457	1349	0.884	21.8	9.64	470	250	132	W21 x 12 1/4
23.1	7.42	4484	808	5040	1241	0.885	23.4	8.82	374	231	122	W21 x 12 1/4
23.0	7.34	4064	726	4555	1113	0.885	25.6	7.79	283	211	111	W21 x 12 1/4
22.9	7.32	3714	659	4146	1009	0.885	27.9	7.03	216	192	101	W21 x 12 1/4
22.1	4.69	3136	362	3613	569	0.874	24.9	2.67	250	176	93	W21 x 8 1/4
22.1	4.67	2794	320	3197	500	0.877	27.6	2.32	178	155	83	W21 x 8 1/4
21.9	4.60	2477	279	2829	436	0.875	30.9	1.99	126	139	73	W21 x 8 1/4
21.9	4.57	2292	256	2612	399	0.874	33.2	1.81	101	129	68	W21 x 8 1/4
21.7	4.51	2072	228	2360	355	0.872	36.5	1.60	75.7	117	62	W21 x 8 1/4
21.3	4.38	1800	192	2059	300	0.864	41.6	1.33	51.5	105	55	UB21 x 8 1/4
21.2	3.42	1815	152	2104	242	0.862	35.5	0.849	73.7	108	57	W21 x 6 1/2
20.8	3.31	1552	125	1809	200	0.853	41.1	0.692	48.0	95.2	50	W21 x 6 1/2
20.5	3.20	1336	104	1562	166	0.847	47.0	0.565	32.0	83.7	44	W21 x 6 1/2
19.0	4.31	2091	259	2398	406	0.878	24.2	1.26	149	135	71	W18 x 7 1/2
19.1	4.33	1957	243	2232	379	0.881	25.7	1.18	121	125	65	W18 x 7 1/2
19.0	4.29	1770	218	2014	338	0.880	28.3	1.04	90.7	114	60	W18 x 7 1/2
18.8	4.23	1611	196	1831	304	0.877	30.9	0.922	69.2	104	55	W18 x 7 1/2
18.8	4.20	1458	176	1653	272	0.877	33.9	0.818	51.8	94.6	50	W18 x 7 1/2
18.5	4.12	1296	153	1471	237	0.872	37.9	0.705	37.1	85.5	45	UB18 x 7 1/2
18.4	3.27	1263	119	1453	187	0.869	33.6	0.448	47.7	85.6	46	W18 x 6
18.3	3.23	1122	104	1287	163	0.868	37.5	0.387	33.8	76.2	40	W18 x 6
17.9	3.11	950	84.6	1096	133	0.859	43.9	0.311	21.4	66.6	35	W18 x 6
17.1	4.08	1513	199	1725	310	0.881	24.4	0.717	92.6	108	57	W16 x 7
17.0	4.04	1323	172	1501	267	0.882	27.6	0.608	62.8	94.5	50	W16 x 7
16.9	3.99	1189	153	1346	237	0.880	30.5	0.533	46.1	85.5	45	W16 x 7
16.8	3.97	1063	135	1200	209	0.880	33.8	0.466	33.3	76.5	40	W16 x 7
16.5	3.85	930	115	1055	178	0.871	38.3	0.392	23.1	69.0	36	W16 x 7

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



W SHAPES in accordance with ASTM A6/A6M

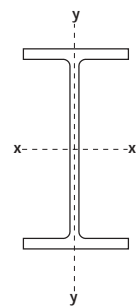
Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size 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
W16 x 5½	31	406 x 140 x 46	46.0	403.2	142.2	6.8	11.2	10.2	360.4	6.35	53.0	15690	538
W16 x 5½	26	406 x 140 x 39	39.0	398.0	141.8	6.4	8.6	10.2	360.4	8.24	56.3	12510	410
W14 x 16	730	† 356 x 406 x 1086	1087.9	569.0	454.0	78.0	125.0	15.2	288.6	1.82	3.70	595700	196200
W14 x 16	665	† 356 x 406 x 990	991.0	550.0	448.0	71.9	115.0	15.2	289.6	1.95	4.03	518900	173400
W14 x 16	605	† 356 x 406 x 900	902.2	531.0	442.0	65.9	106.0	15.2	288.6	2.08	4.38	450200	153300
W14 x 16	550	† 356 x 406 x 818	819.0	514.0	437.0	60.5	97.0	15.2	289.6	2.25	4.79	392200	135500
W14 x 16	500	† 356 x 406 x 744	744.3	498.0	432.0	55.6	88.9	15.2	289.8	2.43	5.21	342100	119900
W14 x 16	455	† 356 x 406 x 677	677.8	483.0	428.0	51.2	81.5	15.2	289.6	2.63	5.66	299500	106900
W14 x 16	426	356 x 406 x 634	633.9	474.6	424.0	47.6	77.0	15.2	290.2	2.75	6.10	274800	98130
W14 x 16	398	† 356 x 406 x 592	592.6	465.0	421.0	45.0	72.3	15.2	290.0	2.91	6.44	250200	90170
W14 x 16	370	356 x 406 x 551	551.0	455.6	418.5	42.1	67.5	15.2	290.2	3.10	6.89	226900	82670
W14 x 16	342	† 356 x 406 x 509	509.5	446.0	416.0	39.1	62.7	15.2	290.2	3.32	7.42	204500	75400
W14 x 16	311	† 356 x 406 x 463	462.8	435.0	412.0	35.8	57.4	15.2	289.8	3.59	8.09	180200	67040
W14 x 16	283	† 356 x 406 x 421	421.7	425.0	409.0	32.8	52.6	15.2	289.4	3.89	8.82	159600	60080
UC14 x 16	264	356 x 406 x 393	393.0	419.0	407.0	30.6	49.2	15.2	290.2	4.14	9.48	146600	55370
W14 x 16	257	† 356 x 406 x 382	382.4	416.0	406.0	29.8	48.0	15.2	289.6	4.23	9.72	141300	53620
W14 x 16	233	† 356 x 406 x 347	347.0	407.0	404.0	27.2	43.7	15.2	289.2	4.62	10.6	125000	48090
UC14 x 16	228	356 x 406 x 340	339.9	406.4	403.0	26.6	42.9	15.2	290.2	4.70	10.9	122500	46850
W14 x 16	211	† 356 x 406 x 314	313.4	399.0	401.0	24.9	39.6	15.2	289.4	5.06	11.6	110200	42600
W14 x 16	193	356 x 406 x 287	287.1	393.6	399.0	22.6	36.5	15.2	290.2	5.47	12.8	99880	38680
W14 x 16	176	† 356 x 406 x 262	262.7	387.0	398.0	21.1	33.3	15.2	290.0	5.98	13.7	89420	35020
W14 x 16	159	356 x 406 x 235	235.1	381.0	394.8	18.4	30.2	15.2	290.2	6.54	15.8	79080	30990
W14 x 16	145	† 356 x 406 x 216	216.3	375.0	394.0	17.3	27.7	15.2	289.2	7.11	16.7	71150	28250
UC14 x 14½	136	356 x 368 x 202	201.9	374.6	374.7	16.5	27.0	15.2	290.2	6.94	17.6	66260	23690
W14 x 14½	132	† 356 x 368 x 196	196.5	372.0	374.0	16.4	26.2	15.2	289.2	7.14	17.6	63640	22860
W14 x 14½	120	† 356 x 368 x 179	179.2	368.0	373.0	15.0	23.9	15.2	289.8	7.80	19.3	57450	20680
W14 x 14½	109	† 356 x 368 x 162	162.0	364.0	371.0	13.3	21.8	15.2	290.0	8.51	21.8	51550	18560
UC14 x 14½	103	356 x 368 x 153	152.9	362.0	370.5	12.3	20.7	15.2	290.2	8.95	23.6	48590	17550
W14 x 14½	99	† 356 x 368 x 147	147.5	360.0	370.0	12.3	19.8	15.2	290.0	9.34	23.6	46300	16720
W14 x 14½	90	† 356 x 368 x 134	134.0	356.0	369.0	11.2	18.0	15.2	289.6	10.3	25.9	41520	15080
UC14 x 14½	87	356 x 368 x 129	129.0	355.6	368.6	10.4	17.5	15.2	290.2	10.5	27.9	40250	14610
UB14 x 6¾	45	356 x 171 x 67	67.1	363.4	173.2	9.1	15.7	10.2	311.6	5.52	34.2	19460	1362
W14 x 6¾	38	356 x 171 x 57	57.0	358.0	172.2	8.1	13.0	10.2	311.6	6.62	38.5	16040	1108
W14 x 6¾	34	356 x 171 x 51	51.0	355.0	171.5	7.4	11.5	10.2	311.6	7.46	42.1	14140	968
W14 x 6¾	30	356 x 171 x 45	45.0	351.4	171.1	7.0	9.7	10.2	311.6	8.82	44.5	12070	811

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

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



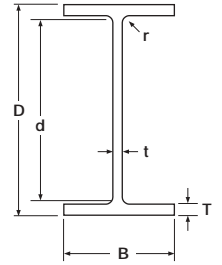
W SHAPES in accordance with ASTM A6/A6M

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	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
16.4	3.03	778	75.7	888	118	0.871	38.9	0.207	19.0	58.6	31	W16 x 5½
15.9	2.87	629	57.8	724	90.8	0.858	47.5	0.155	10.7	49.7	26	W16 x 5½
20.7	11.9	20940	8645	27210	13380	0.851	3.80	96.7	60530	1386	730	W14 x 16
20.3	11.7	18870	7739	24280	11960	0.850	4.04	82.0	46940	1262	665	W14 x 16
19.8	11.6	16960	6938	21620	10710	0.848	4.27	69.2	36440	1149	605	W14 x 16
19.4	11.4	15260	6203	19260	9561	0.846	4.57	58.9	27860	1043	550	W14 x 16
19.0	11.2	13740	5552	17170	8549	0.845	4.88	50.2	21380	948	500	W14 x 16
18.6	11.1	12400	4994	15350	7680	0.843	5.21	43.1	16460	863	455	W14 x 16
18.4	11.0	11580	4629	14240	7108	0.843	5.46	38.8	13720	808	426	W14 x 16
18.2	10.9	10760	4284	13140	6574	0.842	5.73	34.8	11360	755	398	W14 x 16
18.0	10.9	9962	3951	12080	6058	0.841	6.05	31.1	9240	702	370	W14 x 16
17.8	10.8	9172	3625	11030	5552	0.840	6.43	27.7	7396	649	342	W14 x 16
17.5	10.7	8284	3254	9879	4978	0.839	6.90	23.9	5652	590	311	W14 x 16
17.2	10.6	7510	2938	8881	4489	0.837	7.42	20.8	4340	537	283	W14 x 16
17.1	10.5	6998	2721	8223	4154	0.837	7.86	18.9	3545	501	264	UC14 x 16
17.0	10.5	6795	2641	7966	4031	0.837	8.02	18.2	3286	487	257	W14 x 16
16.8	10.4	6140	2380	7140	3629	0.835	8.68	15.9	2482	442	233	W14 x 16
16.8	10.4	6031	2325	6999	3544	0.836	8.85	15.5	2343	433	228	UC14 x 16
16.6	10.3	5526	2125	6375	3236	0.834	9.45	13.8	1850	399	211	W14 x 16
16.5	10.3	5075	1939	5813	2949	0.835	10.2	12.3	1441	366	193	W14 x 16
16.3	10.2	4621	1760	5260	2676	0.833	11.0	11.0	1105	335	176	W14 x 16
16.3	10.2	4151	1570	4687	2383	0.834	12.1	9.5	812	299	159	W14 x 16
16.1	10.1	3795	1434	4263	2176	0.832	13.0	8.5	633	276	145	W14 x 16
16.1	9.60	3538	1264	3972	1919	0.844	13.4	7.16	558	257	136	UC14 x 14½
15.9	9.55	3422	1222	3838	1856	0.843	13.7	6.83	514	250	132	W14 x 14½
15.9	9.52	3122	1109	3483	1683	0.842	14.9	6.12	391	228	120	W14 x 14½
15.8	9.48	2833	1001	3140	1516	0.843	16.2	5.43	294	206	109	W14 x 14½
15.8	9.49	2684	948	2965	1435	0.844	17.0	5.11	251	195	103	UC14 x 14½
15.7	9.43	2572	904	2839	1369	0.843	17.7	4.84	223	188	99	W14 x 14½
15.6	9.40	2333	817	2563	1237	0.842	19.3	4.31	168	171	90	W14 x 14½
15.6	9.43	2264	793	2479	1199	0.844	19.9	4.18	153	164	87	UC14 x 14½
15.1	3.99	1071	157	1211	243	0.886	24.4	0.41	55.7	85.5	45	UB14 x 6¾
14.9	3.91	896	129	1010	199	0.882	28.8	0.33	33.4	72.6	38	W14 x 6¾
14.8	3.86	796	113	896	174	0.881	32.1	0.29	23.8	64.9	34	W14 x 6¾
14.5	3.76	687	94.8	775	147	0.874	36.8	0.24	15.8	57.3	30	W14 x 6¾

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



W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

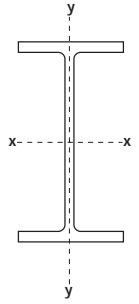
Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size 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
W14 x 5	26	356 x 127 x 39	39.1	353.4	126.0	6.6	10.7	10.2	311.6	5.89	47.2	10170	358
W14 x 5	22	356 x 127 x 33	33.1	349.0	125.4	6.0	8.5	10.2	311.6	7.38	51.9	8249	280
W12 x 12	336	† 305 x 305 x 500	500.5	427.2	340.0	45.1	75.1	15.2	246.6	2.26	5.47	169000	49420
W12 x 12	305	† 305 x 305 x 454	454.0	415.0	336.0	41.3	68.7	15.2	247.2	2.45	5.99	148000	43610
W12 x 12	279	† 305 x 305 x 415	415.1	403.0	334.0	38.9	62.7	15.2	247.2	2.66	6.35	129900	39080
W12 x 12	252	† 305 x 305 x 375	374.8	391.0	330.0	35.4	57.2	15.2	246.2	2.88	6.95	112800	34370
W12 x 12	230	† 305 x 305 x 342	343.3	382.0	328.0	32.6	52.6	15.2	246.4	3.12	7.56	100500	31020
W12 x 12	210	† 305 x 305 x 313	313.2	373.6	324.9	30.0	48.3	15.2	246.6	3.36	8.22	89320	27680
W12 x 12	190	305 x 305 x 283	282.9	365.3	322.2	26.8	44.1	15.2	246.7	3.65	9.21	78870	24630
W12 x 12	170	† 305 x 305 x 253	252.9	356.0	319.0	24.4	39.6	15.2	246.4	4.03	10.1	68230	21460
UC12 x 12	161	305 x 305 x 240	240.0	352.5	318.4	23.0	37.7	15.2	246.7	4.22	10.7	64200	20310
W12 x 12	152	† 305 x 305 x 226	226.8	348.0	317.0	22.1	35.6	15.2	246.4	4.45	11.1	59570	18930
W12 x 12	136	† 305 x 305 x 202	202.6	341.0	315.0	20.1	31.8	15.2	247.0	4.95	12.3	51990	16590
UC12 x 12	133	† 305 x 305 x 198	198.1	339.9	314.5	19.1	31.4	15.2	246.7	5.01	12.9	50900	16300
W12 x 12	120	† 305 x 305 x 179	178.8	333.0	313.0	18.0	28.1	15.2	246.4	5.57	13.7	44540	14380
W12 x 12	106	305 x 305 x 158	158.1	327.1	311.2	15.8	25.0	15.2	246.7	6.22	15.6	38750	12570
W12 x 12	96	† 305 x 305 x 143	143.1	323.0	309.0	14.0	22.9	15.2	246.8	6.75	17.6	34770	11270
UC12 x 12	92	305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	15.2	246.7	7.12	17.9	32810	10700
W12 x 12	87	† 305 x 305 x 129	129.6	318.0	308.0	13.1	20.6	15.2	246.4	7.48	18.8	30780	10040
W12 x 12	79	305 x 305 x 118	117.9	314.5	307.4	12.0	18.7	15.2	246.7	8.22	20.6	27670	9059
W12 x 12	72	† 305 x 305 x 107	106.9	311.0	306.0	10.9	17.0	15.2	246.6	9.00	22.6	24800	8123
W12 x 12	65	305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	15.2	246.7	9.91	24.9	22250	7308
*UB12 x 6½	36	305 x 165 x 54	54.0	310.4	166.8	7.9	13.7	8.9	265.2	6.09	33.6	11690	1061
*UB12 x 6½	31	305 x 165 x 46	46.1	307.1	165.7	6.7	11.8	8.9	265.7	7.02	39.7	9935	896
*UB12 x 6½	27	305 x 165 x 40	40.3	303.4	165.1	6.0	10.2	8.9	265.2	8.09	44.2	8507	766
UB12 x 5	32	305 x 127 x 48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	4.48	29.5	9575	461
UB12 x 5	28	305 x 127 x 42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	5.14	33.2	8196	389
UB12 x 5	25	305 x 127 x 37	37.0	304.4	123.4	7.1	10.7	8.9	265.2	5.77	37.4	7171	336
W12 x 4	22	305 x 102 x 33	32.8	312.7	102.4	6.6	10.8	7.6	275.9	4.74	41.8	6501	194
W12 x 4	19	305 x 102 x 28	28.2	308.7	101.8	6.0	8.8	7.6	275.9	5.78	46.0	5366	155
W12 x 4	16	305 x 102 x 25	24.8	305.1	101.6	5.8	7.0	7.6	275.9	7.26	47.6	4455	123

† These sizes are in addition to the standard BS4 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.

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



W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by structural sections in accordance with BS4: Part 1

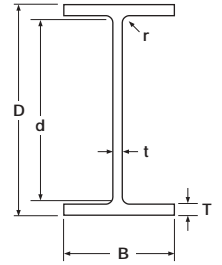
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constant J cm ⁴	Area of Section cm ²	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
14.3	2.68	576	56.8	659	89.0	0.871	35.2	0.105	15.1	49.8	26	W14 x 5
14.0	2.58	473	44.7	543	70.2	0.863	42.2	0.0812	8.79	42.1	22	W14 x 5
16.3	8.80	7913	2907	9883	4487	0.861	5.00	15.3	10110	638	336	W12 x 12
16.0	8.68	7130	2596	8816	4001	0.860	5.37	13.1	7716	578	305	W12 x 12
15.7	8.60	6448	2340	7903	3607	0.857	5.74	11.3	5950	529	279	W12 x 12
15.4	8.48	5769	2083	7005	3205	0.856	6.16	9.57	4491	477	252	W12 x 12
15.2	8.42	5263	1892	6334	2907	0.855	6.60	8.42	3494	437	230	W12 x 12
15.0	8.33	4781	1704	5707	2615	0.855	7.08	7.32	2700	399	210	W12 x 12
14.8	8.27	4318	1529	5105	2342	0.855	7.65	6.35	2034	360	190	W12 x 12
14.6	8.16	3833	1346	4491	2059	0.854	8.36	5.37	1477	322	170	W12 x 12
14.5	8.15	3643	1276	4247	1950	0.854	8.74	5.03	1271	306	161	UC12 x 12
14.4	8.10	3424	1194	3976	1825	0.853	9.16	4.62	1077	289	152	W12 x 12
14.2	8.02	3049	1053	3511	1608	0.852	10.1	3.96	774	258	136	W12 x 12
14.2	8.04	2995	1037	3440	1581	0.854	10.2	3.88	734	252	133	UC12 x 12
14.0	7.95	2675	919	3053	1401	0.851	11.2	3.34	538	228	120	W12 x 12
13.9	7.90	2369	808	2681	1230	0.851	12.5	2.87	378	201	106	W12 x 12
13.8	7.86	2153	729	2419	1109	0.853	13.5	2.54	287	182	96	W12 x 12
13.7	7.83	2048	692	2297	1052	0.851	14.2	2.39	249	174	92	UC12 x 12
13.7	7.80	1936	652	2165	991	0.851	14.8	2.22	213	165	87	W12 x 12
13.6	7.77	1760	589	1958	895	0.850	16.2	1.98	161	150	79	W12 x 12
13.5	7.72	1595	531	1765	806	0.850	17.6	1.76	122	136	72	W12 x 12
13.4	7.69	1445	479	1592	726	0.850	19.3	1.56	91.2	123	65	W12 x 12
13.0	3.93	753	127	846	195	0.889	23.6	0.234	34.8	68.7	36	*UB12 x 6½
13.0	3.90	647	108	722	166	0.891	27.2	0.195	22.2	58.8	31	*UB12 x 6½
12.9	3.86	561	92.8	623	142	0.889	31.0	0.165	14.7	51.3	27	*UB12 x 6½
12.5	2.74	616	73.6	711	116	0.873	23.3	0.102	31.8	61.2	32	UB12 x 5
12.4	2.70	534	62.6	614	98.4	0.872	26.5	0.0846	21.1	53.4	28	UB12 x 5
12.3	2.67	471	54.5	539	85.4	0.872	29.7	0.0725	14.8	47.2	25	UB12 x 5
12.5	2.15	416	37.9	481	60.0	0.866	31.6	0.0442	12.2	41.8	22	W12 x 4
12.2	2.08	348	30.5	403	48.4	0.859	37.4	0.0349	7.40	35.9	19	W12 x 4
11.9	1.97	292	24.2	342	38.8	0.846	43.4	0.0273	4.77	31.6	16	W12 x 4

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

W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

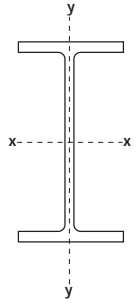
Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size 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
W10 x 10	112	254 x 254 x 167	167.1	289.1	265.2	19.2	31.7	12.7	200.3	4.18	10.4	30000	9870
W10 x 10	100	† 254 x 254 x 149	148.9	282.0	263.0	17.3	28.4	12.7	199.8	4.63	11.5	25930	8622
W10 x 10	88	254 x 254 x 132	132.0	276.3	261.3	15.3	25.3	12.7	200.3	5.16	13.1	22530	7531
W10 x 10	77	† 254 x 254 x 115	114.8	269.0	259.0	13.5	22.1	12.7	199.4	5.86	14.8	18940	6405
UC10 x 10	72	254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	12.7	200.3	6.31	15.6	17510	5928
W10 x 10	68	† 254 x 254 x 101	101.3	264.2	257.3	11.9	19.6	12.7	199.6	6.56	16.8	16410	5569
W10 x 10	60	254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	12.7	200.3	7.41	19.4	14270	4857
W10 x 10	54	† 254 x 254 x 80	80.1	256.4	254.7	9.4	15.6	12.7	199.8	8.16	21.3	12600	4298
W10 x 10	49	254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	12.7	200.3	8.96	23.3	11410	3908
W10 x 5 3/4	30	† 254 x 146 x 45	44.8	265.9	147.6	7.6	13.0	7.6	224.7	5.68	29.6	7085	698
UB10 x 5 3/4	29	254 x 146 x 43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	5.80	30.4	6544	677
W10 x 5 3/4	26	† 254 x 146 x 39	38.6	262.4	146.6	6.6	11.2	7.6	224.8	6.54	34.1	6014	589
UB10 x 5 3/4	25	254 x 146 x 37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	6.72	34.8	5537	571
W10 x 5 3/4	22	† 254 x 146 x 33	32.8	258.3	146.1	6.1	9.1	7.6	224.9	8.03	36.9	4903	474
UB10 x 5 3/4	21	254 x 146 x 31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	8.49	36.5	4413	448
W10 x 4	19	254 x 102 x 28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	5.11	35.7	4005	179
W10 x 4	17	254 x 102 x 25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	6.07	37.5	3415	149
W10 x 4	15	254 x 102 x 22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	7.47	39.5	2841	119
W8 x 8	67	† 203 x 203 x 100	99.6	228.6	210.3	14.5	23.7	10.2	160.8	4.44	11.1	11300	3679
W8 x 8	58	203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	10.2	160.8	5.10	12.7	9449	3127
W8 x 8	48	203 x 203 x 71	71.0	215.8	206.4	10.0	17.3	10.2	160.8	5.97	16.1	7618	2537
W8 x 8	40	203 x 203 x 60	60.0	209.6	205.8	9.4	14.2	10.2	160.8	7.25	17.1	6125	2065
W8 x 8	35	203 x 203 x 52	52.0	206.2	204.3	7.9	12.5	10.2	160.8	8.17	20.4	5259	1778
W8 x 8	31	203 x 203 x 46	46.1	203.2	203.6	7.2	11.0	10.2	160.8	9.25	22.3	4568	1548
W8 x 5 1/4	21	† 203 x 133 x 31	31.4	210.0	134.0	6.4	10.2	7.6	174.4	6.57	27.3	3137	410
UB8 x 5 1/4	20	203 x 133 x 30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9	2896	385
W8 x 5 1/4	18	† 203 x 133 x 27	26.6	207.0	133.0	5.8	8.4	7.6	175.0	7.92	30.2	2580	330
UB8 x 5 1/4	17	203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	8.54	30.2	2340	308
UB8 x 4	16	203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	5.47	31.4	2105	164
UB7 x 4	13	178 x 102 x 19	19.0	177.8	101.2	4.8	7.9	7.6	146.8	6.41	30.6	1356	137
W6 x 6	25	152 x 152 x 37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.5	2210	706
W6 x 6	20	152 x 152 x 30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.0	1748	560
W6 x 6	15	152 x 152 x 23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.2	21.3	1250	400
UB6 x 3 1/2	11	152 x 89 x 16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1	834	89.8
UB5 x 3	9	127 x 76 x 13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	5.00	24.2	473	55.7

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

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



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	Mass per foot lb	Serial Size in
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	2075	744	2424	1137	0.851	8.49	1.63	626	213	112	W10 x 10
11.7	6.74	1839	656	2129	1001	0.850	9.31	1.39	451	190	100	W10 x 10
11.6	6.69	1631	576	1869	878	0.850	10.3	1.19	319	168	88	W10 x 10
11.4	6.62	1408	495	1599	753	0.849	11.6	0.976	213	146	77	W10 x 10
11.3	6.59	1313	458	1485	697	0.848	12.4	0.898	172	136	72	UC10 x 10
11.3	6.57	1243	433	1399	658	0.849	12.9	0.833	149	129	68	W10 x 10
11.2	6.55	1096	379	1224	575	0.850	14.5	0.717	102	113	60	W10 x 10
11.1	6.49	983	338	1091	512	0.849	15.8	0.623	75.6	102	54	W10 x 10
11.1	6.48	898	307	992	465	0.849	17.3	0.562	57.6	93.1	49	W10 x 10
11.1	3.50	533	94.5	600	145	0.889	21.2	0.112	26.1	57.1	30	W10 x 5 3/4
10.9	3.52	504	92.0	566	141	0.891	21.2	0.103	23.9	54.8	29	UB10 x 5 3/4
11.1	3.46	458	80.3	513	123	0.889	24.3	0.0929	16.8	49.2	26	W10 x 5 3/4
10.8	3.48	433	78.0	483	119	0.890	24.3	0.0857	15.3	47.2	25	UB10 x 5 3/4
10.8	3.37	380	64.8	425	99.6	0.882	29.0	0.0735	9.86	41.7	22	W10 x 5 3/4
10.5	3.36	351	61.3	393	94.1	0.880	29.6	0.0660	8.55	39.7	21	UB10 x 5 3/4
10.5	2.22	308	34.9	353	54.8	0.874	27.5	0.0280	9.57	36.1	19	W10 x 4
10.3	2.15	266	29.2	306	46.0	0.866	31.5	0.0230	6.42	32.0	17	W10 x 4
10.1	2.06	224	23.5	259	37.3	0.856	36.4	0.0182	4.15	28.0	15	W10 x 4
9.44	5.39	988	350	1148	534	0.852	9.02	0.386	210	127	67	W8 x 8
9.28	5.34	850	299	977	456	0.850	10.2	0.318	137	110	58	W8 x 8
9.18	5.30	706	246	799	374	0.853	11.9	0.250	80.2	90.4	48	W8 x 8
8.96	5.20	584	201	656	305	0.846	14.1	0.197	47.2	76.4	40	W8 x 8
8.91	5.18	510	174	567	264	0.848	15.8	0.167	31.8	66.3	35	W8 x 8
8.82	5.13	450	152	497	231	0.847	17.7	0.143	22.2	58.7	31	W8 x 8
8.86	3.20	299	61.1	335	93.7	0.885	20.7	0.0409	11.9	40.0	21	W8 x 5 1/4
8.71	3.17	280	57.5	314	88.2	0.881	21.5	0.0374	10.3	38.2	20	UB8 x 5 1/4
8.73	3.12	249	49.6	279	76.1	0.880	24.5	0.0325	7.13	33.9	18	W8 x 5 1/4
8.56	3.10	230	46.2	258	70.9	0.877	25.6	0.0294	5.96	32.0	17	UB8 x 5 1/4
8.46	2.36	207	32.2	234	49.7	0.888	22.5	0.0154	7.02	29.4	16	UB8 x 4
7.48	2.37	153	27.0	171	41.6	0.888	22.6	0.0099	4.41	24.3	13	UB7 x 4
6.85	3.87	273	91.5	309	140	0.848	13.3	0.0399	19.2	47.1	25	W6 x 6
6.76	3.83	222	73.3	248	112	0.849	16.0	0.0308	10.5	38.3	20	W6 x 6
6.54	3.70	164	52.6	182	80.1	0.840	20.7	0.0212	4.63	29.2	15	W6 x 6
6.41	2.10	109	20.2	123	31.2	0.890	19.6	0.0047	3.56	20.3	11	UB6 x 3 1/2
5.35	1.84	74.6	14.7	84.2	22.6	0.895	16.3	0.0020	2.85	16.5	9	UB5 x 3

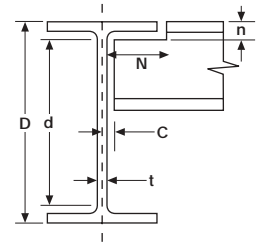
Any enquiries, with regards to volume and production, should be referred to the Account Manager.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	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	† 1016 x 305 x 487	17	150	86	3.19	6.56	0.124
W40 x 12	294	† 1016 x 305 x 437	15	150	80	3.17	7.25	0.111
W40 x 12	264	† 1016 x 305 x 393	14	150	74	3.14	8.00	0.100
W40 x 12	235	† 1016 x 305 x 349	13	152	70	3.13	8.96	0.0890
W40 x 12	211	† 1016 x 305 x 314	12	152	66	3.11	9.89	0.0800
W40 x 12	183	† 1016 x 305 x 272	10	152	62	3.10	11.4	0.0694
W40 x 12	167	† 1016 x 305 x 249	10	152	56	3.08	12.4	0.0634
W40 x 12	149	† 1016 x 305 x 222	10	152	52	3.06	13.8	0.0566
W36 x 16 1/2	359	† 914 x 419 x 534	16	210	76	3.50	6.56	0.136
W36 x 16 1/2	328	† 914 x 419 x 488	15	210	72	3.48	7.13	0.124
W36 x 16 1/2	300	† 914 x 419 x 447	14	210	68	3.47	7.76	0.114
W36 x 16 1/2	280	† 914 x 419 x 418	13	210	64	3.46	8.28	0.107
W36 x 16 1/2	260	914 x 419 x 388	13	210	62	3.44	8.87	0.0988
W36 x 16 1/2	245	† 914 x 419 x 365	12	210	60	3.43	9.40	0.0930
W36 x 16 1/2	230	914 x 419 x 343	12	210	58	3.42	9.96	0.0874
W36 x 12	386	† 914 x 305 x 576	20	154	86	3.17	5.51	0.147
W36 x 12	349	† 914 x 305 x 521	19	154	78	3.14	6.03	0.133
W36 x 12	318	† 914 x 305 x 474	17	154	74	3.11	6.56	0.121
W36 x 12	285	† 914 x 305 x 425	15	154	70	3.09	7.27	0.108
W36 x 12	256	† 914 x 305 x 381	14	154	64	3.06	8.02	0.0972
W36 x 12	232	† 914 x 305 x 345	13	154	60	3.04	8.81	0.0880
W36 x 12	210	† 914 x 305 x 313	13	156	54	3.03	9.68	0.0798
W36 x 12	194	914 x 305 x 289	12	156	52	3.01	10.4	0.0736
W36 x 12	182	† 914 x 305 x 271	11	156	50	3.00	11.0	0.0692
W36 x 12	170	914 x 305 x 253	11	156	48	2.99	11.8	0.0646
W36 x 12	160	† 914 x 305 x 238	10	156	46	2.98	12.5	0.0606
W36 x 12	150	914 x 305 x 224	10	156	44	2.97	13.2	0.0572
W36 x 12	135	914 x 305 x 201	10	156	40	2.96	14.7	0.0512
W33 x 15 3/4	387	† 838 x 400 x 576	18	200	76	3.38	5.87	0.147
W33 x 15 3/4	354	† 838 x 400 x 527	17	200	72	3.35	6.35	0.134
W33 x 15 3/4	318	† 838 x 400 x 473	15	200	66	3.33	7.04	0.121
W33 x 15 3/4	291	† 838 x 400 x 433	14	200	62	3.31	7.64	0.110
W33 x 15 3/4	263	† 838 x 400 x 392	13	200	58	3.29	8.39	0.100
W33 x 15 3/4	241	† 838 x 400 x 359	13	202	54	3.28	9.13	0.0916
W33 x 15 3/4	221	† 838 x 400 x 329	12	202	52	3.26	9.90	0.0840
W33 x 15 3/4	201	† 838 x 400 x 299	11	202	48	3.24	10.8	0.0762

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

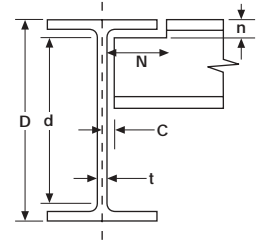
This brochure is designed to give information on the product range available from Corus Construction & Industrial.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	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 11 1/2	219	† 838 x 292 x 326	13	148	58	2.87	8.79	0.0832
W33 x 11 1/2	204	† 838 x 292 x 304	12	148	56	2.85	9.40	0.0772
W33 x 11 1/2	187	† 838 x 292 x 278	12	148	52	2.84	10.2	0.0710
W33 x 11 1/2	169	† 838 x 292 x 251	11	148	50	2.82	11.3	0.0638
W33 x 11 1/2	152	838 x 292 x 226	10	150	46	2.81	12.4	0.0578
W33 x 11 1/2	141	† 838 x 292 x 210	10	150	44	2.80	13.3	0.0536
W33 x 11 1/2	130	838 x 292 x 194	9	150	40	2.79	14.4	0.0494
W33 x 11 1/2	118	838 x 292 x 176	9	150	38	2.78	15.8	0.0448
W30 x 15	326	† 762 x 381 x 484	17	192	70	3.12	6.44	0.124
W30 x 15	292	† 762 x 381 x 434	15	192	64	3.10	7.14	0.111
W30 x 15	261	† 762 x 381 x 389	14	192	60	3.07	7.91	0.0990
W30 x 15	235	† 762 x 381 x 350	13	192	56	3.05	8.73	0.0890
W30 x 15	211	† 762 x 381 x 314	12	192	50	3.04	9.67	0.0800
W30 x 15	191	† 762 x 381 x 284	11	192	48	3.02	10.6	0.0724
W30 x 15	173	† 762 x 381 x 257	10	194	44	3.01	11.7	0.0656
W30 x 10 1/2	148	† 762 x 267 x 220	10	136	48	2.56	11.6	0.0562
W30 x 10 1/2	132	762 x 267 x 197	10	138	42	2.55	13.0	0.0502
W30 x 10 1/2	124	† 762 x 267 x 185	9	138	42	2.54	13.7	0.0470
W30 x 10 1/2	116	762 x 267 x 173	9	138	40	2.53	14.6	0.0440
W30 x 10 1/2	108	† 762 x 267 x 161	9	138	36	2.52	15.7	0.0408
W30 x 10 1/2	99	762 x 267 x 147	8	138	34	2.51	17.1	0.0374
W30 x 10 1/2	90	762 x 267 x 134	8	138	32	2.51	18.7	0.0342
W27 x 14	307	† 686 x 356 x 457	17	180	70	2.89	6.32	0.116
W27 x 14	281	† 686 x 356 x 419	15	180	66	2.87	6.86	0.107
W27 x 14	258	† 686 x 356 x 384	14	180	62	2.85	7.42	0.0978
W27 x 14	235	† 686 x 356 x 350	14	180	58	2.83	8.08	0.0892
W27 x 14	217	† 686 x 356 x 323	13	180	54	2.81	8.70	0.0822
W27 x 14	194	† 686 x 356 x 289	12	180	50	2.79	9.68	0.0734
W27 x 14	178	† 686 x 356 x 265	11	180	46	2.78	10.5	0.0674
W27 x 14	161	† 686 x 356 x 240	10	180	44	2.77	11.5	0.0612
W27 x 14	146	† 686 x 356 x 217	10	180	40	2.75	12.6	0.0554

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

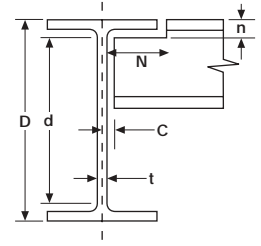
The Dimension N is based upon the outstand from web face to flange edge + 10mm, to the nearest 2mm above and makes due allowance for rolling tolerance.

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

W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	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 10	221	† 686 x 254 x 329	15	130	64	2.46	7.49	0.0836
W27 x 10	201	† 686 x 254 x 299	14	130	60	2.44	8.14	0.0764
W27 x 10	182	† 686 x 254 x 271	13	130	56	2.42	8.94	0.0690
W27 x 10	159	† 686 x 254 x 237	12	130	50	2.39	10.1	0.0602
W27 x 10	129	† 686 x 254 x 192	10	130	44	2.36	12.3	0.0488
W27 x 10	114	686 x 254 x 170	9	132	40	2.35	13.8	0.0434
W27 x 10	102	686 x 254 x 152	9	132	38	2.34	15.4	0.0388
W27 x 10	94	686 x 254 x 140	8	132	36	2.33	16.6	0.0356
W27 x 10	84	686 x 254 x 125	8	132	32	2.32	18.5	0.0318
W24 x 12 3/4	306	† 610 x 324 x 455	18	164	76	2.65	5.82	0.116
W24 x 12 3/4	279	† 610 x 324 x 415	17	166	70	2.62	6.29	0.106
W24 x 12 3/4	250	† 610 x 324 x 372	15	166	66	2.60	6.97	0.0950
W24 x 12 3/4	229	† 610 x 324 x 341	14	166	62	2.58	7.56	0.0870
W24 x 12 3/4	207	† 610 x 324 x 307	13	166	58	2.56	8.30	0.0786
W24 x 12 3/4	192	† 610 x 324 x 285	12	166	54	2.54	8.88	0.0728
W24 x 12 3/4	176	† 610 x 324 x 262	12	164	52	2.52	9.62	0.0668
W24 x 12 3/4	162	† 610 x 324 x 241	11	166	48	2.52	10.5	0.0608
W24 x 12 3/4	146	† 610 x 324 x 217	10	166	46	2.51	11.5	0.0558
W24 x 12 3/4	131	† 610 x 324 x 195	10	166	42	2.49	12.7	0.0500
W24 x 12 3/4	117	† 610 x 324 x 174	9	166	40	2.48	14.2	0.0446
W24 x 12 3/4	104	† 610 x 324 x 155	8	166	36	2.46	15.8	0.0396
UB24 x 12	160	610 x 305 x 238	11	158	48	2.45	10.3	0.0606
UB24 x 12	120	610 x 305 x 179	9	158	42	2.41	13.5	0.0456
UB24 x 12	100	610 x 305 x 149	8	158	38	2.39	16.0	0.0380
W24 x 9	198	† 610 x 229 x 295	15	118	60	2.22	7.52	0.0752
W24 x 9	163	† 610 x 229 x 243	13	118	52	2.18	8.97	0.0620
W24 x 9	146	† 610 x 229 x 217	12	118	48	2.16	9.90	0.0556
W24 x 9	128	† 610 x 229 x 191	11	118	44	2.14	11.2	0.0484
W24 x 9	114	† 610 x 229 x 171	10	118	42	2.12	12.4	0.0438
W24 x 9	103	† 610 x 229 x 153	9	118	38	2.11	13.7	0.0390
W24 x 9	94	610 x 229 x 140	9	120	36	2.11	15.1	0.0356
W24 x 9	84	610 x 229 x 125	8	120	34	2.09	16.7	0.0318
W24 x 9	76	610 x 229 x 113	8	120	30	2.08	18.4	0.0288
W24 x 9	68	610 x 229 x 101	7	120	28	2.07	20.5	0.0258

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

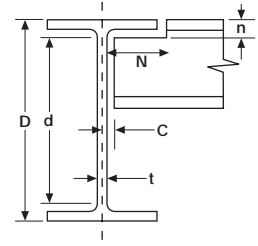
This brochure is designed to give information on the product range available from Corus Construction & Industrial.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	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 7	62	† 610 x 178 x 92	7	96	28	1.88	20.4	0.0236
W24 x 7	55	† 610 x 178 x 82	7	94	26	1.87	22.8	0.0208
W21 x 12½	275	† 533 x 312 x 409	18	160	70	2.45	5.99	0.104
W21 x 12½	248	† 533 x 312 x 370	16	160	64	2.43	6.58	0.0942
W21 x 12½	223	† 533 x 312 x 331	15	160	60	2.40	7.25	0.0844
W21 x 12½	201	† 533 x 312 x 300	14	158	56	2.38	7.95	0.0764
W21 x 12½	182	† 533 x 312 x 272	13	158	52	2.36	8.70	0.0692
W21 x 12½	166	† 533 x 312 x 248	12	158	48	2.34	9.49	0.0628
W21 x 12½	147	† 533 x 312 x 219	11	160	42	2.33	10.6	0.0558
W21 x 12½	132	† 533 x 312 x 196	10	160	40	2.32	11.8	0.0500
W21 x 12½	122	† 533 x 312 x 182	10	160	38	2.31	12.7	0.0462
W21 x 12½	111	† 533 x 312 x 165	9	160	36	2.29	13.9	0.0422
W21 x 12½	101	† 533 x 312 x 150	8	160	34	2.29	15.2	0.0384
W21 x 8½	93	† 533 x 210 x 138	9	110	38	1.90	13.7	0.0352
W21 x 8½	83	533 x 210 x 122	8	110	34	1.89	15.5	0.0310
W21 x 8½	73	533 x 210 x 109	8	110	32	1.88	17.2	0.0278
W21 x 8½	68	533 x 210 x 101	7	110	32	1.87	18.5	0.0258
W21 x 8½	62	533 x 210 x 92	7	110	30	1.86	20.2	0.0234
UB21 x 8½	55	533 x 210 x 82	7	110	26	1.85	22.5	0.0210
W21 x 6½	57	† 533 x 165 x 85	7	88	30	1.69	20.0	0.0216
W21 x 6½	50	† 533 x 165 x 74	7	90	28	1.68	22.5	0.0190
W21 x 6½	44	† 533 x 165 x 66	6	90	26	1.67	25.4	0.0167
W18 x 7½	71	† 457 x 191 x 106	8	102	34	1.67	15.7	0.0270
W18 x 7½	65	457 x 191 x 98	8	102	30	1.67	17.0	0.0250
W18 x 7½	60	457 x 191 x 89	7	102	28	1.66	18.6	0.0228
W18 x 7½	55	457 x 191 x 82	7	102	28	1.65	20.1	0.0208
W18 x 7½	50	457 x 191 x 74	7	102	26	1.64	22.1	0.0189
UB18 x 7½	45	457 x 191 x 67	6	102	24	1.63	24.3	0.0171
W18 x 6	46	457 x 152 x 67	7	84	26	1.50	22.3	0.0171
W18 x 6	40	457 x 152 x 60	6	84	24	1.49	24.9	0.0152
W18 x 6	35	457 x 152 x 52	6	84	22	1.48	28.3	0.0133
W16 x 7	57	† 406 x 178 x 85	7	96	30	1.52	17.9	0.0216
W16 x 7	50	406 x 178 x 74	7	96	28	1.51	20.4	0.0189
W16 x 7	45	406 x 178 x 67	6	96	26	1.50	22.3	0.0171
W16 x 7	40	406 x 178 x 60	6	96	24	1.49	24.8	0.0153
W16 x 7	36	406 x 178 x 54	6	96	22	1.48	27.3	0.0138

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

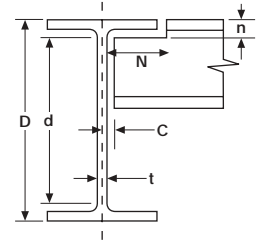
Based on 2000 lb/ton

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

W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W16 x 5½	31	406 x 140 x 46	5	78	22	1.34	29.1	0.0117
W16 x 5½	26	406 x 140 x 39	5	78	20	1.33	34.1	0.0099
W14 x 16	730	† 356 x 406 x 1086	41	198	142	2.77	2.55	0.277
W14 x 16	665	† 356 x 406 x 990	38	200	132	2.72	2.74	0.252
W14 x 16	605	† 356 x 406 x 900	35	200	122	2.67	2.96	0.230
W14 x 16	550	† 356 x 406 x 818	32	200	114	2.63	3.21	0.209
W14 x 16	500	† 356 x 406 x 744	30	200	106	2.59	3.48	0.190
W14 x 16	455	† 356 x 406 x 677	28	200	98	2.55	3.76	0.173
W14 x 16	426	356 x 406 x 634	26	200	94	2.52	3.98	0.162
W14 x 16	398	† 356 x 406 x 592	25	198	88	2.50	4.22	0.151
W14 x 16	370	356 x 406 x 551	23	200	84	2.47	4.48	0.140
W14 x 16	342	† 356 x 406 x 509	22	200	78	2.45	4.81	0.130
W14 x 16	311	† 356 x 406 x 463	20	200	74	2.42	5.23	0.118
W14 x 16	283	† 356 x 406 x 421	18	200	68	2.39	5.67	0.107
UC14 x 16	264	356 x 406 x 393	17	200	66	2.38	6.06	0.100
W14 x 16	257	† 356 x 406 x 382	17	200	64	2.37	6.20	0.0974
W14 x 16	233	† 356 x 406 x 347	16	200	60	2.35	6.77	0.0884
UC14 x 16	228	356 x 406 x 340	15	200	60	2.35	6.91	0.0866
W14 x 16	211	† 356 x 406 x 314	14	200	56	2.33	7.44	0.0798
W14 x 16	193	356 x 406 x 287	13	200	52	2.31	8.05	0.0732
W14 x 16	176	† 356 x 406 x 262	13	200	50	2.30	8.76	0.0670
W14 x 16	159	356 x 406 x 235	11	200	46	2.28	9.70	0.0598
W14 x 16	145	† 356 x 406 x 216	11	200	44	2.27	10.5	0.0552
UC14 x 14½	136	356 x 368 x 202	10	190	44	2.19	10.8	0.0514
W14 x 14½	132	† 356 x 368 x 196	10	190	42	2.18	11.1	0.0500
W14 x 14½	120	† 356 x 368 x 179	10	190	40	2.17	12.1	0.0456
W14 x 14½	109	† 356 x 368 x 162	9	190	38	2.16	13.3	0.0412
UC14 x 14½	103	356 x 368 x 153	8	190	36	2.16	14.1	0.0390
W14 x 14½	99	† 356 x 368 x 147	8	190	36	2.15	14.6	0.0376
W14 x 14½	90	† 356 x 368 x 134	8	190	34	2.14	16.0	0.0342
UC14 x 14½	87	356 x 368 x 129	7	190	34	2.14	16.6	0.0328
UB14 x 6¾	45	356 x 171 x 67	7	94	26	1.38	20.6	0.0171
W14 x 6¾	38	356 x 171 x 57	6	94	24	1.37	24.1	0.0145
W14 x 6¾	34	356 x 171 x 51	6	94	22	1.36	26.7	0.0130
W14 x 6¾	30	356 x 171 x 45	6	94	20	1.36	30.2	0.0115

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

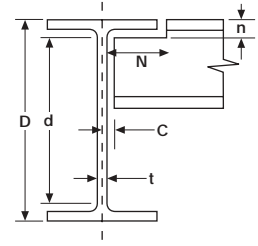
This brochure is designed to give information on the product range available from Corus Construction & Industrial.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	End Clearance C mm	Notch		Surface Area		
				N mm	n mm	per metre m ²	per tonne m ²	two end faces m ²
W14 x 5	26	356 x 127 x 39	5	70	22	1.18	30.2	0.0100
W14 x 5	22	356 x 127 x 33	5	70	20	1.17	35.4	0.0084
W12 x 12	336	† 305 x 305 x 500	25	158	92	2.10	4.20	0.128
W12 x 12	305	† 305 x 305 x 454	23	158	84	2.07	4.56	0.116
W12 x 12	279	† 305 x 305 x 415	21	158	78	2.04	4.91	0.106
W12 x 12	252	† 305 x 305 x 375	20	158	74	2.01	5.36	0.0954
W12 x 12	230	† 305 x 305 x 342	18	158	68	1.98	5.77	0.0874
W12 x 12	210	† 305 x 305 x 313	17	158	64	1.96	6.26	0.0798
W12 x 12	190	305 x 305 x 283	15	158	60	1.94	6.86	0.0720
W12 x 12	170	† 305 x 305 x 253	14	158	56	1.91	7.55	0.0644
UC12 x 12	161	305 x 305 x 240	14	158	54	1.91	7.96	0.0612
W12 x 12	152	† 305 x 305 x 226	13	158	52	1.89	8.33	0.0578
W12 x 12	136	† 305 x 305 x 202	12	158	48	1.88	9.28	0.0516
UC12 x 12	133	† 305 x 305 x 198	12	158	48	1.87	9.44	0.0504
W12 x 12	120	† 305 x 305 x 179	11	158	44	1.86	10.4	0.0456
W12 x 12	106	305 x 305 x 158	10	158	42	1.84	11.6	0.0402
W12 x 12	96	† 305 x 305 x 143	9	158	40	1.83	12.8	0.0364
UC12 x 12	92	305 x 305 x 137	9	158	38	1.82	13.3	0.0348
W12 x 12	87	† 305 x 305 x 129	9	158	36	1.82	14.0	0.0330
W12 x 12	79	305 x 305 x 118	8	158	34	1.81	15.4	0.0300
W12 x 12	72	† 305 x 305 x 107	7	158	34	1.80	16.8	0.0272
W12 x 12	65	305 x 305 x 97	7	158	32	1.79	18.5	0.0246
*UB12 x 6½	36	305 x 165 x 54	6	90	24	1.26	23.4	0.0137
*UB12 x 6½	31	305 x 165 x 46	5	90	22	1.25	27.1	0.0118
*UB12 x 6½	27	305 x 165 x 40	5	90	20	1.24	30.8	0.0103
UB12 x 5	32	305 x 127 x 48	7	70	24	1.09	22.7	0.0122
UB12 x 5	28	305 x 127 x 42	6	70	22	1.08	25.8	0.0107
UB12 x 5	25	305 x 127 x 37	6	70	20	1.07	28.9	0.0094
W12 x 4	22	305 x 102 x 33	5	58	20	1.01	30.8	0.0084
W12 x 4	19	305 x 102 x 28	5	58	18	1.00	35.5	0.0072
W12 x 4	16	305 x 102 x 25	5	58	16	0.992	40.0	0.0063

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

* 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.

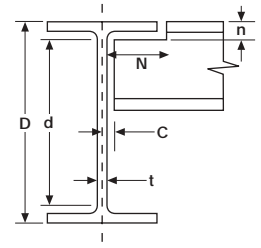
Any enquiries, with regards to volume and production, should be referred to the Account Manager.

W SHAPES

in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	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	254 x 254 x 167	12	134	46	1.58	9.46	0.0426
W10 x 10	100	† 254 x 254 x 149	11	134	42	1.56	10.5	0.0380
W10 x 10	88	254 x 254 x 132	10	134	38	1.55	11.7	0.0336
W10 x 10	77	† 254 x 254 x 115	9	134	36	1.53	13.3	0.0292
UC10 x 10	72	254 x 254 x 107	8	134	34	1.52	14.2	0.0272
W10 x 10	68	† 254 x 254 x 101	8	134	34	1.51	14.9	0.0258
W10 x 10	60	254 x 254 x 89	7	134	30	1.50	16.9	0.0226
W10 x 10	54	† 254 x 254 x 80	7	134	30	1.49	18.6	0.0204
W10 x 10	49	254 x 254 x 73	6	134	28	1.49	20.4	0.0186
W10 x 5¾	30	† 254 x 146 x 45	6	80	22	1.09	24.3	0.0114
UB10 x 5¾	29	254 x 146 x 43	6	82	22	1.08	25.1	0.0110
W10 x 5¾	26	† 254 x 146 x 39	5	80	20	1.08	28.0	0.0098
UB10 x 5¾	25	254 x 146 x 37	5	82	20	1.07	28.9	0.0094
W10 x 5¾	22	† 254 x 146 x 33	5	80	18	1.08	33.0	0.0083
UB10 x 5¾	21	254 x 146 x 31	5	82	18	1.06	34.0	0.0079
W10 x 4	19	254 x 102 x 28	5	58	18	0.904	31.9	0.0072
W10 x 4	17	254 x 102 x 25	5	58	16	0.897	35.7	0.0064
W10 x 4	15	254 x 102 x 22	5	58	16	0.890	40.5	0.0056
W8 x 8	67	† 203 x 203 x 100	9	108	34	1.25	12.6	0.0254
W8 x 8	58	203 x 203 x 86	8	110	32	1.24	14.4	0.0220
W8 x 8	48	203 x 203 x 71	7	110	28	1.22	17.2	0.0181
W8 x 8	40	203 x 203 x 60	7	110	26	1.21	20.2	0.0153
W8 x 8	35	203 x 203 x 52	6	110	24	1.20	23.1	0.0133
W8 x 8	31	203 x 203 x 46	6	110	22	1.19	25.8	0.0117
W8 x 5¼	21	† 203 x 133 x 31	5	74	18	0.930	29.6	0.0080
UB8 x 5¼	20	203 x 133 x 30	5	74	18	0.923	30.8	0.0076
W8 x 5¼	18	† 203 x 133 x 27	5	74	16	0.921	34.6	0.0068
UB8 x 5¼	17	203 x 133 x 25	5	74	16	0.915	36.5	0.0064
UB8 x 4	16	203 x 102 x 23	5	60	18	0.790	34.2	0.0059
UB7 x 4	13	178 x 102 x 19	4	60	16	0.738	38.7	0.0049
W6 x 6	25	152 x 152 x 37	6	84	20	0.912	24.7	0.0094
W6 x 6	20	152 x 152 x 30	5	84	18	0.901	30.0	0.0077
W6 x 6	15	152 x 152 x 23	5	84	16	0.889	38.7	0.0058
UB6 x 3½	11	152 x 89 x 16	4	54	16	0.638	40.0	0.0041
UB5 x 3	9	127 x 76 x 13	4	46	16	0.537	41.4	0.0033





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

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W40 x 12	327	† 1016 x 305 x 487	2.60	2.87	3.08	3.48
W40 x 12	294	† 1016 x 305 x 437	2.35	2.60	2.80	3.16
W40 x 12	264	† 1016 x 305 x 393	2.13	2.36	2.54	2.87
W40 x 12	235	† 1016 x 305 x 349	1.90	2.11	2.27	2.57
W40 x 12	211	† 1016 x 305 x 314	1.72	1.91	2.06	2.33
W40 x 12	183	† 1016 x 305 x 272	1.50	1.66	1.80	2.04
W40 x 12	167	† 1016 x 305 x 249	1.38	1.53	1.66	1.88
W40 x 12	149	† 1016 x 305 x 222	1.24	1.37	1.49	1.69
W36 x 16 1/2	359	† 914 x 419 x 534	2.60	2.96	3.31	3.91
W36 x 16 1/2	328	† 914 x 419 x 488	2.39	2.72	3.05	3.61
W36 x 16 1/2	300	† 914 x 419 x 447	2.20	2.50	2.81	3.33
W36 x 16 1/2	280	† 914 x 419 x 418	2.06	2.35	2.64	3.13
W36 x 16 1/2	260	914 x 419 x 388	1.92	2.19	2.46	2.92
W36 x 16 1/2	245	† 914 x 419 x 365	1.81	2.07	2.33	2.76
W36 x 16 1/2	230	914 x 419 x 343	1.71	1.95	2.20	2.61
W36 x 12	386	† 914 x 305 x 576	3.10	3.45	3.73	4.25
W36 x 12	349	† 914 x 305 x 521	2.83	3.15	3.42	3.89
W36 x 12	318	† 914 x 305 x 474	2.59	2.89	3.14	3.58
W36 x 12	285	† 914 x 305 x 425	2.35	2.61	2.85	3.24
W36 x 12	256	† 914 x 305 x 381	2.12	2.36	2.58	2.94
W36 x 12	232	† 914 x 305 x 345	1.93	2.15	2.35	2.68
W36 x 12	210	† 914 x 305 x 313	1.76	1.96	2.15	2.45
W36 x 12	194	914 x 305 x 289	1.64	1.82	2.00	2.28
W36 x 12	182	† 914 x 305 x 271	1.54	1.72	1.88	2.15
W36 x 12	170	914 x 305 x 253	1.44	1.61	1.76	2.02
W36 x 12	160	† 914 x 305 x 238	1.36	1.52	1.66	1.90
W36 x 12	150	914 x 305 x 224	1.29	1.43	1.57	1.80
W36 x 12	135	914 x 305 x 201	1.16	1.29	1.42	1.62
W33 x 15 3/4	387	† 838 x 400 x 576	2.91	3.31	3.71	4.39
W33 x 15 3/4	354	† 838 x 400 x 527	2.68	3.06	3.43	4.06
W33 x 15 3/4	318	† 838 x 400 x 473	2.42	2.76	3.10	3.68
W33 x 15 3/4	291	† 838 x 400 x 433	2.23	2.54	2.86	3.40
W33 x 15 3/4	263	† 838 x 400 x 392	2.03	2.32	2.61	3.10
W33 x 15 3/4	241	† 838 x 400 x 359	1.87	2.13	2.41	2.86
W33 x 15 3/4	221	† 838 x 400 x 329	1.72	1.97	2.22	2.64
W33 x 15 3/4	201	† 838 x 400 x 299	1.57	1.79	2.03	2.42

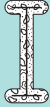



† These sizes are in addition to the standard BS4 range.

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W33 x 11½	219	† 838 x 292 x 326	1.94	2.17	2.37	2.71
W33 x 11½	204	† 838 x 292 x 304	1.81	2.02	2.21	2.54
W33 x 11½	187	† 838 x 292 x 278	1.67	1.87	2.05	2.35
W33 x 11½	169	† 838 x 292 x 251	1.51	1.69	1.86	2.13
W33 x 11½	152	838 x 292 x 226	1.37	1.53	1.69	1.93
W33 x 11½	141	† 838 x 292 x 210	1.28	1.43	1.58	1.81
W33 x 11½	130	838 x 292 x 194	1.18	1.32	1.46	1.67
W33 x 11½	118	838 x 292 x 176	1.08	1.21	1.33	1.53
W30 x 15	326	† 762 x 381 x 484	2.65	3.03	3.40	4.06
W30 x 15	292	† 762 x 381 x 434	2.39	2.73	3.08	3.67
W30 x 15	261	† 762 x 381 x 389	2.16	2.46	2.79	3.32
W30 x 15	235	† 762 x 381 x 350	1.95	2.23	2.53	3.02
W30 x 15	211	† 762 x 381 x 314	1.76	2.02	2.29	2.74
W30 x 15	191	† 762 x 381 x 284	1.60	1.83	2.08	2.49
W30 x 15	173	† 762 x 381 x 257	1.46	1.67	1.90	2.28
W30 x 10½	148	† 762 x 267 x 220	1.47	1.64	1.80	2.06
W30 x 10½	132	762 x 267 x 197	1.31	1.47	1.62	1.86
W30 x 10½	124	† 762 x 267 x 185	1.24	1.38	1.52	1.75
W30 x 10½	116	762 x 267 x 173	1.16	1.30	1.43	1.65
W30 x 10½	108	† 762 x 267 x 161	1.08	1.21	1.33	1.53
W30 x 10½	99	762 x 267 x 147	0.996	1.11	1.23	1.41
W30 x 10½	90	762 x 267 x 134	0.911	1.02	1.12	1.29
W27 x 14	307	† 686 x 356 x 457	2.70	3.09	3.48	4.16
W27 x 14	281	† 686 x 356 x 419	2.49	2.85	3.22	3.85
W27 x 14	258	† 686 x 356 x 384	2.30	2.63	2.98	3.57
W27 x 14	235	† 686 x 356 x 350	2.11	2.42	2.74	3.29
W27 x 14	217	† 686 x 356 x 323	1.96	2.25	2.55	3.05
W27 x 14	194	† 686 x 356 x 289	1.76	2.02	2.29	2.75
W27 x 14	178	† 686 x 356 x 265	1.62	1.86	2.12	2.55
W27 x 14	161	† 686 x 356 x 240	1.48	1.70	1.93	2.33
W27 x 14	146	† 686 x 356 x 217	1.35	1.55	1.77	2.13





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

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W27 x 10	221	† 686 x 254 x 329	2.27	2.55	2.78	3.21
W27 x 10	201	† 686 x 254 x 299	2.09	2.35	2.57	2.96
W27 x 10	182	† 686 x 254 x 271	1.91	2.14	2.34	2.70
W27 x 10	159	† 686 x 254 x 237	1.68	1.88	2.07	2.39
W27 x 10	129	† 686 x 254 x 192	1.38	1.55	1.71	1.97
W27 x 10	114	686 x 254 x 170	1.23	1.38	1.53	1.77
W27 x 10	102	686 x 254 x 152	1.11	1.24	1.38	1.59
W27 x 10	94	686 x 254 x 140	1.02	1.15	1.27	1.47
W27 x 10	84	686 x 254 x 125	0.920	1.03	1.15	1.33
W24 x 12¾	306	† 610 x 324 x 455	2.93	3.36	3.77	4.51
W24 x 12¾	279	† 610 x 324 x 415	2.71	3.11	3.49	4.18
W24 x 12¾	250	† 610 x 324 x 372	2.45	2.81	3.17	3.80
W24 x 12¾	229	† 610 x 324 x 341	2.26	2.59	2.92	3.51
W24 x 12¾	207	† 610 x 324 x 307	2.06	2.36	2.67	3.21
W24 x 12¾	192	† 610 x 324 x 285	1.92	2.20	2.50	3.00
W24 x 12¾	176	† 610 x 324 x 262	1.77	2.03	2.31	2.77
W24 x 12¾	162	† 610 x 324 x 241	1.61	1.86	2.11	2.55
W24 x 12¾	146	† 610 x 324 x 217	1.49	1.71	1.95	2.35
W24 x 12¾	131	† 610 x 324 x 195	1.34	1.55	1.76	2.13
W24 x 12¾	117	† 610 x 324 x 174	1.20	1.39	1.58	1.92
W24 x 12¾	104	† 610 x 324 x 155	1.08	1.24	1.42	1.72
UB24 x 12	160	610 x 305 x 238	1.66	1.90	2.14	2.56
UB24 x 12	120	610 x 305 x 179	1.27	1.45	1.65	1.97
UB24 x 12	100	610 x 305 x 149	1.06	1.22	1.39	1.66
W24 x 9	198	† 610 x 229 x 295	2.26	2.54	2.77	3.19
W24 x 9	163	† 610 x 229 x 243	1.90	2.13	2.34	2.69
W24 x 9	146	† 610 x 229 x 217	1.72	1.93	2.12	2.45
W24 x 9	128	† 610 x 229 x 191	1.51	1.70	1.87	2.16
W24 x 9	114	† 610 x 229 x 171	1.38	1.54	1.70	1.97
W24 x 9	103	† 610 x 229 x 153	1.24	1.39	1.54	1.77
W24 x 9	94	610 x 229 x 140	1.13	1.27	1.41	1.63
W24 x 9	84	610 x 229 x 125	1.02	1.14	1.27	1.47
W24 x 9	76	610 x 229 x 113	0.924	1.04	1.15	1.33
W24 x 9	68	610 x 229 x 101	0.832	0.935	1.04	1.20





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

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1





Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W24 x 7	62	† 610 x 178 x 92	0.837	0.925	1.01	1.14
W24 x 7	55	† 610 x 178 x 82	0.747	0.826	0.898	1.01
W21 x 12¼	275	† 533 x 312 x 409	2.84	3.28	3.71	4.49
W21 x 12¼	248	† 533 x 312 x 370	2.60	3.00	3.39	4.11
W21 x 12¼	223	† 533 x 312 x 331	2.35	2.71	3.08	3.74
W21 x 12¼	201	† 533 x 312 x 300	2.15	2.48	2.82	3.43
W21 x 12¼	182	† 533 x 312 x 272	1.96	2.27	2.59	3.14
W21 x 12¼	166	† 533 x 312 x 248	1.79	2.07	2.37	2.88
W21 x 12¼	147	† 533 x 312 x 219	1.60	1.85	2.12	2.59
W21 x 12¼	132	† 533 x 312 x 196	1.45	1.67	1.92	2.35
W21 x 12¼	122	† 533 x 312 x 182	1.34	1.55	1.79	2.19
W21 x 12¼	111	† 533 x 312 x 165	1.23	1.42	1.64	2.01
W21 x 12¼	101	† 533 x 312 x 150	1.12	1.30	1.50	1.84
W21 x 8¼	93	† 533 x 210 x 138	1.24	1.40	1.54	1.80
W21 x 8¼	83	533 x 210 x 122	1.10	1.24	1.37	1.60
W21 x 8¼	73	533 x 210 x 109	0.990	1.11	1.24	1.44
W21 x 8¼	68	533 x 210 x 101	0.921	1.04	1.15	1.34
W21 x 8¼	62	533 x 210 x 92	0.844	0.951	1.06	1.23
UB21 x 8¼	55	533 x 210 x 82	0.757	0.853	0.950	1.11
W21 x 6½	57	† 533 x 165 x 85	0.853	0.946	1.03	1.17
W21 x 6½	50	† 533 x 165 x 74	0.758	0.841	0.916	1.04
W21 x 6½	44	† 533 x 165 x 66	0.670	0.744	0.811	0.922
W18 x 7½	71	† 457 x 191 x 106	1.09	1.23	1.36	1.60
W18 x 7½	65	457 x 191 x 98	1.01	1.14	1.27	1.49
W18 x 7½	60	457 x 191 x 89	0.919	1.04	1.16	1.36
W18 x 7½	55	457 x 191 x 82	0.848	0.960	1.07	1.26
W18 x 7½	50	457 x 191 x 74	0.772	0.873	0.978	1.15
UB18 x 7½	45	457 x 191 x 67	0.701	0.793	0.889	1.04
W18 x 6	46	457 x 152 x 67	0.765	0.853	0.935	1.07
W18 x 6	40	457 x 152 x 60	0.686	0.764	0.839	0.960
W18 x 6	35	457 x 152 x 52	0.604	0.673	0.740	0.848
W16 x 7	57	† 406 x 178 x 85	0.954	1.08	1.21	1.43
W16 x 7	50	406 x 178 x 74	0.839	0.952	1.07	1.26
W16 x 7	45	406 x 178 x 67	0.764	0.867	0.973	1.15
W16 x 7	40	406 x 178 x 60	0.687	0.780	0.876	1.03
W16 x 7	36	406 x 178 x 54	0.622	0.707	0.795	0.939

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W16 x 5½	31	406 x 140 x 46	0.584	0.653	0.719	0.827
W16 x 5½	26	406 x 140 x 39	0.498	0.558	0.615	0.708
W14 x 16	730	† 356 x 406 x 1086	6.69	8.00	9.06	11.6
W14 x 16	665	† 356 x 406 x 990	6.21	7.43	8.46	10.9
W14 x 16	605	† 356 x 406 x 900	5.75	6.89	7.90	10.2
W14 x 16	550	† 356 x 406 x 818	5.31	6.37	7.34	9.53
W14 x 16	500	† 356 x 406 x 744	4.90	5.89	6.82	8.88
W14 x 16	455	† 356 x 406 x 677	4.53	5.45	6.34	8.29
W14 x 16	426	356 x 406 x 634	4.28	5.15	6.01	7.87
W14 x 16	398	† 356 x 406 x 592	4.04	4.86	5.70	7.48
W14 x 16	370	356 x 406 x 551	3.79	4.57	5.37	7.06
W14 x 16	342	† 356 x 406 x 509	3.54	4.27	5.04	6.64
W14 x 16	311	† 356 x 406 x 463	3.26	3.93	4.66	6.15
W14 x 16	283	† 356 x 406 x 421	3.00	3.62	4.31	5.71
UC14 x 16	264	356 x 406 x 393	2.82	3.40	4.05	5.38
W14 x 16	257	† 356 x 406 x 382	2.75	3.32	3.96	5.26
W14 x 16	233	† 356 x 406 x 347	2.52	3.04	3.65	4.86
UC14 x 16	228	356 x 406 x 340	2.47	2.98	3.58	4.77
W14 x 16	211	† 356 x 406 x 314	2.30	2.77	3.34	4.45
W14 x 16	193	356 x 406 x 287	2.12	2.56	3.09	4.12
W14 x 16	176	† 356 x 406 x 262	1.95	2.36	2.85	3.82
W14 x 16	159	356 x 406 x 235	1.76	2.13	2.58	3.46
W14 x 16	145	† 356 x 406 x 216	1.63	1.97	2.40	3.22
UC14 x 14½	136	356 x 368 x 202	1.57	1.90	2.30	3.06
W14 x 14½	132	† 356 x 368 x 196	1.54	1.85	2.25	3.00
W14 x 14½	120	† 356 x 368 x 179	1.41	1.70	2.06	2.75
W14 x 14½	109	† 356 x 368 x 162	1.28	1.54	1.88	2.51
UC14 x 14½	103	356 x 368 x 153	1.21	1.46	1.78	2.38
W14 x 14½	99	† 356 x 368 x 147	1.17	1.41	1.72	2.31
W14 x 14½	90	† 356 x 368 x 134	1.07	1.29	1.57	2.11
UC14 x 14½	87	356 x 368 x 129	1.03	1.24	1.52	2.04
UB14 x 6¾	45	356 x 171 x 67	0.827	0.945	1.07	1.27
W14 x 6¾	38	356 x 171 x 57	0.708	0.810	0.915	1.09
W14 x 6¾	34	356 x 171 x 51	0.637	0.728	0.825	0.985
W14 x 6¾	30	356 x 171 x 45	0.566	0.647	0.734	0.878

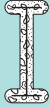



† These sizes are in addition to the standard BS4 range.

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W14 x 5	26	356 x 127 x 39	0.564	0.632	0.694	0.800
W14 x 5	22	356 x 127 x 33	0.482	0.540	0.594	0.685
W12 x 12	336	† 305 x 305 x 500	4.07	4.85	5.56	7.14
W12 x 12	305	† 305 x 305 x 454	3.75	4.47	5.15	6.64
W12 x 12	279	† 305 x 305 x 415	3.47	4.15	4.80	6.21
W12 x 12	252	† 305 x 305 x 375	3.19	3.81	4.43	5.74
W12 x 12	230	† 305 x 305 x 342	2.95	3.53	4.12	5.36
W12 x 12	210	† 305 x 305 x 313	2.72	3.26	3.82	4.98
W12 x 12	190	305 x 305 x 283	2.49	2.98	3.51	4.58
W12 x 12	170	† 305 x 305 x 253	2.25	2.70	3.19	4.18
UC12 x 12	161	305 x 305 x 240	2.15	2.58	3.05	4.00
W12 x 12	152	† 305 x 305 x 226	2.04	2.45	2.91	3.82
W12 x 12	136	† 305 x 305 x 202	1.84	2.21	2.63	3.46
UC12 x 12	133	† 305 x 305 x 198	1.80	2.17	2.58	3.40
W12 x 12	120	† 305 x 305 x 179	1.64	1.97	2.36	3.11
W12 x 12	106	305 x 305 x 158	1.46	1.76	2.11	2.79
W12 x 12	96	† 305 x 305 x 143	1.33	1.61	1.93	2.55
UC12 x 12	92	305 x 305 x 137	1.28	1.54	1.85	2.46
W12 x 12	87	† 305 x 305 x 129	1.22	1.47	1.76	2.34
W12 x 12	79	305 x 305 x 118	1.11	1.34	1.62	2.15
W12 x 12	72	† 305 x 305 x 107	1.01	1.22	1.48	1.96
W12 x 12	65	305 x 305 x 97	0.922	1.11	1.35	1.79
*UB12 x 6½	36	305 x 165 x 54	0.732	0.844	0.964	1.17
*UB12 x 6½	31	305 x 165 x 46	0.630	0.726	0.832	1.01
*UB12 x 6½	27	305 x 165 x 40	0.554	0.639	0.733	0.890
UB12 x 5	32	305 x 127 x 48	0.752	0.849	0.939	1.10
UB12 x 5	28	305 x 127 x 42	0.661	0.747	0.828	0.967
UB12 x 5	25	305 x 127 x 37	0.588	0.665	0.738	0.862
W12 x 4	22	305 x 102 x 33	0.555	0.617	0.674	0.769
W12 x 4	19	305 x 102 x 28	0.480	0.535	0.585	0.667
W12 x 4	16	305 x 102 x 25	0.426	0.475	0.520	0.594

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

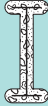



* For the beam size 12 x 6½ the weights and dimensions shown are those in BS4: Part 1 and differ slightly from the W12 x 6½ section shown in ASTM A6/A6M.

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

W SHAPES in accordance with ASTM A6/A6M

W/D Ratio

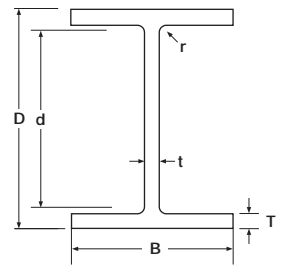
Supplemented by structural sections in accordance with BS4: Part 1

Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W10 x 10	112	254 x 254 x 167	1.80	2.17	2.57	3.38
W10 x 10	100	† 254 x 254 x 149	1.63	1.96	2.33	3.07
W10 x 10	88	254 x 254 x 132	1.46	1.75	2.09	2.76
W10 x 10	77	† 254 x 254 x 115	1.28	1.54	1.85	2.45
UC10 x 10	72	254 x 254 x 107	1.20	1.45	1.74	2.30
W10 x 10	68	† 254 x 254 x 101	1.14	1.38	1.66	2.20
W10 x 10	60	254 x 254 x 89	1.01	1.22	1.47	1.95
W10 x 10	54	† 254 x 254 x 80	0.915	1.10	1.34	1.78
W10 x 10	49	254 x 254 x 73	0.837	1.01	1.22	1.63
W10 x 5¾	30	† 254 x 146 x 45	0.698	0.807	0.924	1.12
UB10 x 5¾	29	254 x 146 x 43	0.678	0.785	0.900	1.10
W10 x 5¾	26	† 254 x 146 x 39	0.606	0.701	0.804	0.980
UB10 x 5¾	25	254 x 146 x 37	0.589	0.682	0.784	0.958
W10 x 5¾	22	† 254 x 146 x 33	0.519	0.601	0.690	0.843
UB10 x 5¾	21	254 x 146 x 31	0.500	0.579	0.668	0.818
W10 x 4	19	254 x 102 x 28	0.534	0.602	0.666	0.775
W10 x 4	17	254 x 102 x 25	0.478	0.539	0.597	0.696
W10 x 4	15	254 x 102 x 22	0.421	0.475	0.527	0.615
W8 x 8	67	† 203 x 203 x 100	1.36	1.63	1.93	2.54
W8 x 8	58	203 x 203 x 86	1.18	1.43	1.70	2.24
W8 x 8	48	203 x 203 x 71	0.992	1.19	1.43	1.90
W8 x 8	40	203 x 203 x 60	0.847	1.02	1.23	1.63
W8 x 8	35	203 x 203 x 52	0.741	0.894	1.08	1.44
W8 x 8	31	203 x 203 x 46	0.661	0.798	0.966	1.29
W8 x 5¼	21	† 203 x 133 x 31	0.575	0.672	0.777	0.965
UB8 x 5¼	20	203 x 133 x 30	0.554	0.648	0.750	0.934
W8 x 5¼	18	† 203 x 133 x 27	0.492	0.575	0.666	0.828
UB8 x 5¼	17	203 x 133 x 25	0.468	0.547	0.636	0.793
UB8 x 4	16	203 x 102 x 23	0.498	0.572	0.645	0.774
UB7 x 4	13	178 x 102 x 19	0.440	0.510	0.582	0.711
W6 x 6	25	152 x 152 x 37	0.691	0.832	0.997	1.32
W6 x 6	20	152 x 152 x 30	0.568	0.685	0.824	1.09
W6 x 6	15	152 x 152 x 23	0.440	0.531	0.642	0.856
UB6 x 3½	11	152 x 89 x 16	0.426	0.495	0.564	0.691
UB5 x 3	9	127 x 76 x 13	0.412	0.479	0.544	0.670

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

UNIVERSAL BEARING PILING

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



Serial Size in	Mass per foot lb	Serial size 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
HP14 x 14 1/2	117	356 x 368 x 174	173.9	361.4	378.5	20.3	20.4	15.2	290.2	9.28	14.3	51010	18460
HP14 x 14 1/2	102	356 x 368 x 152	152.0	356.4	376.0	17.8	17.9	15.2	290.2	10.5	16.3	43970	15880
HP14 x 14 1/2	89	356 x 368 x 133	133.0	352.0	373.8	15.6	15.7	15.2	290.2	11.9	18.6	37980	13680
HP14 x 14 1/2	73	356 x 368 x 109	108.9	346.4	371.0	12.8	12.9	15.2	290.2	14.4	22.7	30630	10990
UP12 x 12	150	305 x 305 x 223	222.9	337.9	325.7	30.3	30.4	15.2	246.7	5.36	8.14	52700	17580
UP12 x 12	125	305 x 305 x 186	186.0	328.3	320.9	25.5	25.6	15.2	246.7	6.27	9.67	42610	14140
UP12 x 12	100	305 x 305 x 149	149.1	318.5	316.0	20.6	20.7	15.2	246.7	7.63	12.0	33070	10910
HP12 x 12	84	305 x 305 x 126	126.1	312.3	312.9	17.5	17.6	15.2	246.7	8.89	14.1	27410	9002
HP12 x 12	74	305 x 305 x 110	110.0	307.9	310.7	15.3	15.4	15.2	246.7	10.1	16.1	23560	7709
HP12 x 12	63	305 x 305 x 95	94.9	303.7	308.7	13.3	13.3	15.2	246.7	11.6	18.5	20040	6529
UP12 x 12	59	305 x 305 x 88	88.0	301.7	307.8	12.4	12.3	15.2	246.7	12.5	19.9	18420	5984
HP12 x 12	53	305 x 305 x 79	78.9	299.3	306.4	11.0	11.1	15.2	246.7	13.8	22.4	16440	5326
HP10 x 10	57	254 x 254 x 85	85.1	254.3	260.4	14.4	14.3	12.7	200.3	9.10	13.9	12280	4215
UP10 x 10	48	254 x 254 x 71	71.0	249.7	258.0	12.0	12.0	12.7	200.3	10.8	16.7	10070	3439
HP10 x 10	42	254 x 254 x 63	63.0	247.1	256.6	10.6	10.7	12.7	200.3	12.0	18.9	8860	3016
HP8 x 8	36	203 x 203 x 54	53.9	204.0	207.7	11.3	11.4	10.2	160.8	9.11	14.2	5027	1705
UP8 x 8	30	203 x 203 x 45	44.9	200.2	205.9	9.5	9.5	10.2	160.8	10.8	16.9	4100	1384

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	Mass per foot lb	Serial Size in
Axis xx cm	Axis yy cm	Axis xx cm ³	Axis yy cm ³	Axis xx cm ³	Axis yy cm ³							
15.2	9.13	2823	976	3186	1497	0.821	15.8	5.37	330	221	117	HP14 x 14 1/2
15.1	9.05	2468	845	2767	1293	0.821	17.8	4.55	223	194	102	HP14 x 14 1/2
15.0	8.99	2158	732	2406	1118	0.822	20.1	3.87	151	169	89	HP14 x 14 1/2
14.9	8.90	1769	592	1956	903	0.823	24.2	3.05	84.6	139	73	HP14 x 14 1/2
13.6	7.87	3119	1079	3653	1680	0.826	9.55	4.15	943	284	150	UP12 x 12
13.4	7.73	2596	881	3003	1366	0.827	11.1	3.24	560	237	125	UP12 x 12
13.2	7.58	2076	691	2370	1065	0.828	13.5	2.42	295	190	100	UP12 x 12
13.1	7.49	1755	575	1986	885	0.829	15.7	1.95	182	161	84	HP12 x 12
13.0	7.42	1531	496	1720	762	0.830	17.7	1.65	122	140	74	HP12 x 12
12.9	7.35	1320	423	1475	648	0.830	20.2	1.38	80.0	121	63	HP12 x 12
12.8	7.31	1221	389	1361	595	0.830	21.6	1.25	64.2	112	59	UP12 x 12
12.8	7.28	1099	348	1218	531	0.832	23.9	1.11	46.9	100	53	HP 12 x 12
10.6	6.24	966	324	1092	498	0.825	15.6	0.607	81.8	108	57	HP10 x 10
10.6	6.17	807	267	904	409	0.826	18.4	0.486	48.4	90.4	48	UP10 x 10
10.5	6.13	717	235	799	360	0.827	20.5	0.421	34.3	80.2	42	HP 10 x 10
8.55	4.98	493	164	557	252	0.827	15.8	0.158	32.7	68.7	36	HP8 x 8
8.46	4.92	410	134	459	206	0.827	18.6	0.126	19.2	57.2	30	UP8 x 8

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

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Support for the construction industry from Corus Construction & Industrial

Guidance on the design and use of structural sections, plates and sheet piling



Corus provides free advice to the construction industry covering all aspects of the design, specification and use of its range of construction products.

Corus Construction & Industrial manufactures structural sections, plates and sheet piling for building and civil engineering applications. Advice is provided by our team of qualified engineers with extensive experience in the design and construction of buildings, bridges, sheet piling and foundations. Specialist advice on fire engineering durability and sustainability is also available. Our regional network of engineers covers the whole of the UK and Ireland and is supported by a dedicated design team based at our manufacturing centre in Scunthorpe.

General enquiries on other construction products and systems manufactured by Corus will be routed to our Construction Centre who will connect you to the appropriate source of market and product expertise.

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