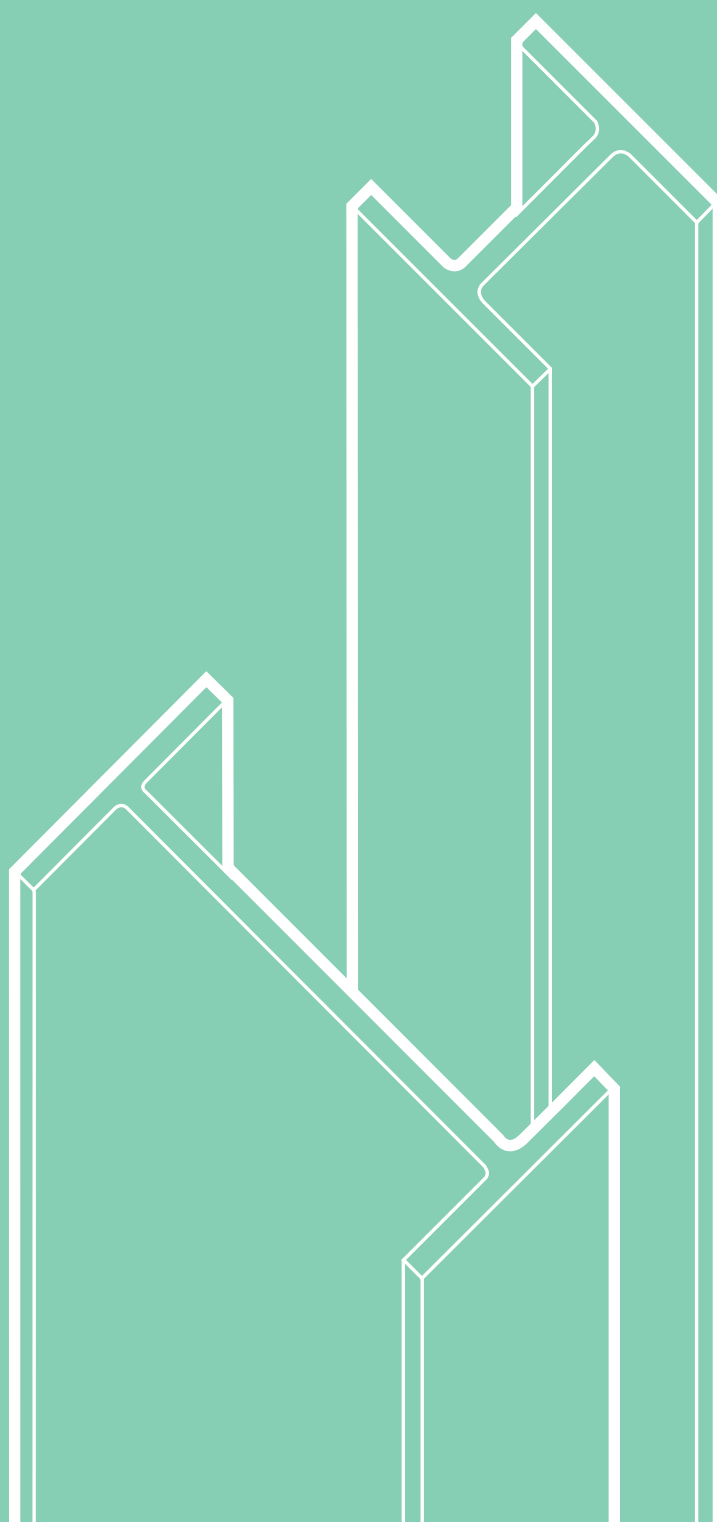


Structural sections - imperial

in accordance with ASTM specifications



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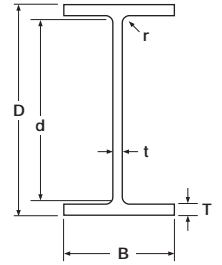
Offices and agents for Corus exports	31-32
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Corus Construction & Industrial

PO Box 1
 Brigg Road
 Scunthorpe
 North Lincolnshire
 DN16 1BP
 T: +44 (0) 1724 404040
 F: +44 (0) 1724 405600

email: corusconstruction@corusgroup.com
 website: www.corusconstructionandindustrial.com

Please note that a Metric version is also available.



W SHAPES in accordance with ASTM A6/A6M

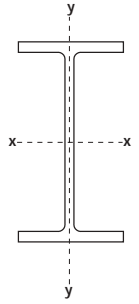
Dimensions and Properties

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W40 x 12	327	† 1016 x 305 x 487	486.6	40.79	12.15	1.18	2.13	1.18	34.2	2.85	28.9	24540	642
W40 x 12	294	† 1016 x 305 x 437	436.9	40.39	12.02	1.06	1.93	1.18	34.2	3.12	32.3	21860	563
W40 x 12	264	† 1016 x 305 x 393	392.7	40.00	11.93	0.96	1.73	1.18	34.2	3.45	35.6	19400	492
W40 x 12	235	† 1016 x 305 x 349	349.4	39.69	11.89	0.83	1.57	1.18	34.2	3.78	41.1	17370	444
W40 x 12	211	† 1016 x 305 x 314	314.3	39.37	11.81	0.75	1.41	1.18	34.2	4.18	45.5	15480	390
W40 x 12	183	† 1016 x 305 x 272	272.3	38.98	11.81	0.65	1.22	1.18	34.2	4.84	52.6	13310	336
W40 x 12	167	† 1016 x 305 x 249	248.7	38.59	11.81	0.65	1.02	1.18	34.2	5.77	52.6	11560	282
W40 x 12	149	† 1016 x 305 x 222	222.0	38.20	11.81	0.63	0.83	1.18	34.2	7.11	54.3	9801	229
W36 x 16½	359	† 914 x 419 x 534	533.8	37.40	16.73	1.12	2.01	0.95	31.5	4.16	28.2	24770	1574
W36 x 16½	328	† 914 x 419 x 488	488.0	37.09	16.63	1.02	1.85	0.95	31.5	4.49	30.9	22500	1422
W36 x 16½	300	† 914 x 419 x 447	447.1	36.72	16.65	0.94	1.68	0.95	31.5	4.95	33.3	20330	1297
W36 x 16½	280	† 914 x 419 x 418	418.1	36.54	16.61	0.89	1.57	0.95	31.5	5.29	35.6	18920	1203
W36 x 16½	260	914 x 419 x 388	388.0	36.26	16.56	0.84	1.44	0.95	31.5	5.74	37.4	17290	1092
W36 x 16½	245	† 914 x 419 x 365	364.8	36.06	16.51	0.80	1.35	0.95	31.5	6.11	39.4	16120	1015
W36 x 16½	230	914 x 419 x 343	343.3	35.90	16.48	0.76	1.26	0.95	31.5	6.54	41.2	15030	941
W36 x 12	386	† 914 x 305 x 576	575.4	39.09	12.67	1.42	2.56	0.75	32.5	2.48	22.8	26450	876
W36 x 12	349	† 914 x 305 x 521	520.8	38.61	12.55	1.30	2.32	0.75	32.5	2.71	25.0	23570	771
W36 x 12	318	† 914 x 305 x 474	473.7	38.22	12.43	1.18	2.13	0.75	32.5	2.92	27.5	21250	687
W36 x 12	285	† 914 x 305 x 425	425.3	37.83	12.31	1.06	1.93	0.75	32.5	3.19	30.7	18920	604
W36 x 12	256	† 914 x 305 x 381	381.6	37.43	12.22	0.96	1.73	0.75	32.5	3.53	33.8	16740	528
W36 x 12	232	† 914 x 305 x 345	345.1	37.12	12.12	0.87	1.57	0.75	32.5	3.86	37.3	15020	468
W36 x 12	210	† 914 x 305 x 313	313.0	36.69	12.18	0.83	1.36	0.75	32.5	4.48	39.1	13190	411
W36 x 12	194	914 x 305 x 289	289.1	36.48	12.11	0.77	1.26	0.75	32.5	4.81	42.3	12110	375
W36 x 12	182	† 914 x 305 x 271	271.7	36.34	12.09	0.72	1.18	0.75	32.5	5.12	44.8	11330	349
W36 x 12	170	914 x 305 x 253	253.4	36.16	12.03	0.68	1.10	0.75	32.5	5.47	47.7	10480	320
W36 x 12	160	† 914 x 305 x 238	238.1	36.00	12.00	0.65	1.02	0.75	32.5	5.88	50.0	9748	295
W36 x 12	150	914 x 305 x 224	224.2	35.84	11.97	0.63	0.94	0.75	32.5	6.36	51.8	9043	270
W36 x 12	135	914 x 305 x 201	200.9	35.55	11.94	0.59	0.80	0.75	32.5	7.51	54.6	7814	226
W33 x 15¾	387	† 838 x 400 x 576	576.0	35.94	16.18	1.26	2.28	0.70	30.0	3.55	23.8	24280	1615
W33 x 15¾	354	† 838 x 400 x 527	527.6	35.55	16.10	1.16	2.09	0.70	30.0	3.85	25.8	21960	1459
W33 x 15¾	318	† 838 x 400 x 473	473.3	35.16	15.98	1.04	1.89	0.70	30.0	4.23	28.8	19520	1289
W33 x 15¾	291	† 838 x 400 x 433	433.3	34.84	15.91	0.96	1.73	0.70	30.0	4.60	31.2	17660	1162
W33 x 15¾	263	† 838 x 400 x 392	391.9	34.53	15.80	0.87	1.57	0.70	30.0	5.03	34.5	15840	1035
W33 x 15¾	241	† 838 x 400 x 359	359.4	34.17	15.87	0.83	1.40	0.70	30.0	5.66	36.1	14190	935
W33 x 15¾	221	† 838 x 400 x 329	329.4	33.94	15.79	0.78	1.28	0.70	30.0	6.19	38.7	12850	838
W33 x 15¾	201	† 838 x 400 x 299	299.3	33.68	15.74	0.72	1.15	0.70	30.0	6.85	41.8	11530	749

† 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.



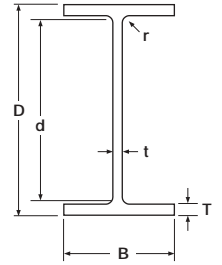
W SHAPES in accordance with ASTM A6/A6M

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 in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
16.0	2.58	1203	106	1416	171	0.867	21.1	239900	103	96.1	327	W40 x 12
15.9	2.56	1082	93.7	1267	151	0.868	23.1	208300	76.5	86.3	294	W40 x 12
15.8	2.52	970	82.6	1131	132	0.868	25.5	180300	56.0	77.5	264	W40 x 12
15.9	2.54	875	74.6	1013	118	0.872	27.9	161100	41.3	69.0	235	W40 x 12
15.8	2.51	786	66.0	906	104	0.872	30.7	140500	30.4	62.1	211	W40 x 12
15.7	2.50	683	57.0	783	89.6	0.873	35.0	119900	20.1	53.8	183	W40 x 12
15.3	2.40	599	47.8	693	75.9	0.861	39.9	99640	14.0	49.1	167	W40 x 12
15.0	2.29	513	38.8	599	62.2	0.850	45.7	80070	9.37	43.8	149	W40 x 12
15.3	3.86	1325	188	1515	292	0.887	19.7	492800	108	105	359	W36 x 16 1/2
15.3	3.84	1213	171	1381	265	0.887	21.3	441400	84.1	96.4	328	W36 x 16 1/2
15.2	3.83	1107	156	1257	241	0.887	23.2	398000	64.3	88.3	300	W36 x 16 1/2
15.1	3.82	1036	145	1172	224	0.887	24.8	367700	52.7	82.6	280	W36 x 16 1/2
15.0	3.78	954	132	1078	204	0.885	26.7	330900	41.7	76.6	260	W36 x 16 1/2
15.0	3.75	894	123	1009	190	0.884	28.3	305700	34.6	72.0	245	W36 x 16 1/2
14.9	3.73	838	114	944	176	0.883	30.1	282200	28.7	67.8	230	W36 x 16 1/2
15.3	2.78	1353	138	1603	223	0.871	16.8	292200	171	114	386	W36 x 12
15.1	2.74	1221	123	1439	197	0.871	18.4	253800	128	103	349	W36 x 12
15.1	2.71	1112	110	1304	177	0.872	19.9	223600	98.5	93.5	318	W36 x 12
15.0	2.68	1000	98.1	1167	156	0.873	21.8	194700	72.7	84.0	285	W36 x 12
14.9	2.65	895	86.4	1039	137	0.872	24.1	168200	52.8	75.3	256	W36 x 12
14.8	2.62	809	77.3	936	122	0.872	26.4	148000	39.6	68.1	232	W36 x 12
14.6	2.58	719	67.5	833	107	0.866	29.7	128300	27.9	61.8	210	W36 x 12
14.6	2.56	664	61.9	767	97.7	0.867	31.9	116200	22.3	57.1	194	W36 x 12
14.5	2.55	624	57.7	719	91.0	0.866	33.9	107800	18.5	53.6	182	W36 x 12
14.5	2.53	580	53.1	668	83.6	0.866	36.2	98200	15.0	50.0	170	W36 x 12
14.4	2.50	542	49.1	624	77.2	0.864	38.6	90130	12.4	47.0	160	W36 x 12
14.3	2.47	505	45.1	582	71.0	0.861	41.3	82210	10.1	44.3	150	W36 x 12
14.0	2.39	440	37.9	510	59.9	0.854	46.8	68370	7.00	39.7	135	W36 x 12
14.6	3.77	1351	200	1559	311	0.887	16.7	457600	147	114	387	W33 x 15 3/4
14.5	3.74	1235	181	1419	282	0.887	18.1	408400	114	104	354	W33 x 15 3/4
14.5	3.71	1110	161	1267	250	0.888	19.9	356800	83.7	93.5	318	W33 x 15 3/4
14.4	3.68	1014	146	1153	226	0.887	21.6	318400	64.5	85.6	291	W33 x 15 3/4
14.3	3.66	917	131	1039	202	0.888	23.6	281200	48.3	77.4	263	W33 x 15 3/4
14.1	3.63	830	118	940	182	0.884	26.1	250900	35.9	71.0	241	W33 x 15 3/4
14.1	3.59	757	106	855	164	0.882	28.4	223500	27.5	65.0	221	W33 x 15 3/4
14.0	3.56	684	95.1	772	147	0.881	31.2	198100	20.6	59.1	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

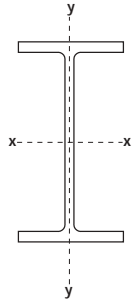
Dimensions and Properties

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W33 x 11½	219	† 838 x 292 x 326	326.6	34.53	11.70	0.87	1.57	0.70	30.0	3.72	34.5	12340	421
W33 x 11½	204	† 838 x 292 x 304	303.3	34.30	11.64	0.81	1.46	0.70	30.0	3.99	37.0	11360	386
W33 x 11½	187	† 838 x 292 x 278	278.6	34.06	11.58	0.75	1.34	0.70	30.0	4.33	39.9	10340	348
W33 x 11½	169	† 838 x 292 x 251	250.7	33.82	11.50	0.67	1.22	0.70	30.0	4.71	44.8	9286	310
W33 x 11½	152	838 x 292 x 226	226.5	33.50	11.57	0.63	1.06	0.70	30.0	5.48	47.3	8161	273
W33 x 11½	141	† 838 x 292 x 210	210.8	33.31	11.54	0.61	0.96	0.70	30.0	6.00	49.5	7465	246
W33 x 11½	130	838 x 292 x 194	193.8	33.10	11.51	0.58	0.85	0.70	30.0	6.74	51.8	6707	218
W33 x 11½	118	838 x 292 x 176	175.9	32.87	11.48	0.55	0.74	0.70	30.0	7.76	54.4	5911	187
W30 x 15	326	† 762 x 381 x 484	484.8	32.40	15.37	1.14	2.05	0.65	27.0	3.75	23.6	16770	1245
W30 x 15	292	† 762 x 381 x 434	433.9	32.01	15.25	1.02	1.85	0.65	27.0	4.12	26.5	14850	1097
W30 x 15	261	† 762 x 381 x 389	388.3	31.61	15.15	0.93	1.65	0.65	27.0	4.59	29.1	13060	959
W30 x 15	235	† 762 x 381 x 350	349.4	31.30	15.04	0.83	1.50	0.65	27.0	5.01	32.5	11660	852
W30 x 15	211	† 762 x 381 x 314	314.2	30.94	15.11	0.78	1.31	0.65	27.0	5.74	34.8	10260	757
W30 x 15	191	† 762 x 381 x 284	283.9	30.67	15.04	0.71	1.19	0.65	27.0	6.35	38.1	9160	673
W30 x 15	173	† 762 x 381 x 257	257.6	30.43	15.00	0.65	1.07	0.65	27.0	7.03	41.3	8209	601
W30 x 10½	148	† 762 x 267 x 220	220.3	30.67	10.48	0.65	1.18	0.65	27.0	4.44	41.6	6684	227
W30 x 10½	132	762 x 267 x 197	196.8	30.31	10.55	0.61	1.00	0.65	27.0	5.28	44.0	5765	196
W30 x 10½	124	† 762 x 267 x 185	184.8	30.16	10.51	0.59	0.93	0.65	27.0	5.66	46.0	5352	180
W30 x 10½	116	762 x 267 x 173	173.0	30.01	10.50	0.56	0.85	0.65	27.0	6.17	48.0	4932	165
W30 x 10½	108	† 762 x 267 x 161	160.4	29.84	10.47	0.54	0.76	0.65	27.0	6.89	49.7	4466	146
W30 x 10½	99	762 x 267 x 147	146.9	29.69	10.44	0.50	0.69	0.65	27.0	7.58	53.6	4048	131
W30 x 10½	90	762 x 267 x 134	133.9	29.53	10.41	0.47	0.61	0.65	27.0	8.53	57.2	3620	115
W27 x 14	307	† 686 x 356 x 457	457.0	29.61	14.44	1.16	2.09	0.60	24.2	3.45	20.9	13090	1054
W27 x 14	281	† 686 x 356 x 419	418.3	29.29	14.35	1.06	1.93	0.60	24.2	3.72	22.9	11880	952
W27 x 14	258	† 686 x 356 x 384	383.9	28.98	14.27	0.98	1.77	0.60	24.2	4.03	24.7	10760	860
W27 x 14	235	† 686 x 356 x 350	350.2	28.66	14.19	0.91	1.61	0.60	24.2	4.41	26.7	9666	768
W27 x 14	217	† 686 x 356 x 323	323.0	28.43	14.11	0.83	1.50	0.60	24.2	4.70	29.2	8871	704
W27 x 14	194	† 686 x 356 x 289	288.2	28.11	14.03	0.75	1.34	0.60	24.2	5.24	32.4	7811	617
W27 x 14	178	† 686 x 356 x 265	264.5	27.81	14.09	0.72	1.19	0.60	24.2	5.92	33.5	6981	555
W27 x 14	161	† 686 x 356 x 240	239.9	27.59	14.02	0.66	1.08	0.60	24.2	6.50	36.6	6273	496
W27 x 14	146	† 686 x 356 x 217	217.8	27.36	13.98	0.61	0.98	0.60	24.2	7.16	39.9	5630	445

† 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.



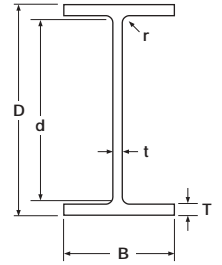
W SHAPES in accordance with ASTM A6/A6M

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 in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
13.8	2.56	714	72.0	827	114	0.874	24.4	114400	37.7	64.5	219	W33 x 11½
13.8	2.54	663	66.3	765	104	0.874	26.1	104000	30.4	59.9	204	W33 x 11½
13.7	2.51	607	60.0	699	94.4	0.874	28.3	93030	23.6	55.0	187	W33 x 11½
13.7	2.50	549	54.0	629	84.4	0.875	30.9	82420	17.7	49.5	169	W33 x 11½
13.5	2.47	487	47.2	559	73.9	0.870	35.0	71820	12.3	44.7	152	W33 x 11½
13.4	2.43	448	42.7	514	67.0	0.867	37.9	64480	9.73	41.6	141	W33 x 11½
13.2	2.39	405	37.8	466	59.4	0.862	41.6	56620	7.35	38.3	130	W33 x 11½
13.0	2.32	360	32.6	415	51.4	0.856	46.5	48360	5.32	34.7	118	W33 x 11½
13.2	3.61	1035	162	1191	252	0.888	16.7	286700	102	95.7	326	W30 x 15
13.2	3.58	928	144	1061	223	0.889	18.3	249500	74.3	85.7	292	W30 x 15
13.1	3.54	826	127	940	196	0.888	20.3	215100	53.2	76.7	261	W30 x 15
13.0	3.51	745	113	844	175	0.889	22.2	189100	39.6	69.0	235	W30 x 15
12.9	3.49	663	100	749	154	0.886	25.0	166000	27.9	62.0	211	W30 x 15
12.8	3.46	597	89.5	672	138	0.885	27.5	146200	20.6	56.1	191	W30 x 15
12.7	3.44	539	80.1	606	123	0.884	30.3	129500	15.3	50.9	173	W30 x 15
12.4	2.29	436	43.4	500	68.0	0.875	28.9	49420	14.5	43.5	148	W30 x 10½
12.2	2.25	380	37.2	437	58.5	0.869	33.2	42170	9.71	38.9	132	W30 x 10½
12.1	2.22	355	34.3	408	53.9	0.867	35.4	38530	7.99	36.5	124	W30 x 10½
12.0	2.19	329	31.3	378	49.3	0.864	38.1	34980	6.42	34.2	116	W30 x 10½
11.9	2.15	299	27.9	345	43.9	0.859	41.5	30850	4.97	31.7	108	W30 x 10½
11.8	2.13	273	25.1	315	39.5	0.858	45.2	27550	3.82	29.0	99	W30 x 10½
11.7	2.09	245	22.1	283	34.8	0.854	49.8	24050	2.86	26.4	90	W30 x 10½
12.0	3.42	884	146	1022	227	0.889	14.8	199400	99.9	90.2	307	W27 x 14
12.0	3.40	811	133	932	206	0.890	15.9	178200	77.9	82.6	281	W27 x 14
11.9	3.37	743	121	850	187	0.889	17.2	159100	60.6	75.8	258	W27 x 14
11.8	3.33	675	108	769	168	0.888	18.8	140600	46.0	69.1	235	W27 x 14
11.8	3.32	624	99.8	708	154	0.890	20.1	127700	36.8	63.8	217	W27 x 14
11.7	3.29	556	88.0	628	135	0.889	22.3	110600	26.3	56.9	194	W27 x 14
11.6	3.26	502	78.8	567	121	0.885	24.7	98300	19.5	52.2	178	W27 x 14
11.5	3.24	455	70.8	512	109	0.884	27.0	87180	14.6	47.4	161	W27 x 14
11.4	3.22	412	63.7	462	97.8	0.884	29.6	77420	11.0	43.0	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

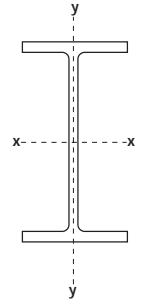
Dimensions and Properties

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W27 x 10	221	† 686 x 254 x 329	328.3	29.13	10.43	1.02	1.85	0.60	24.2	2.82	23.8	8635	352
W27 x 10	201	† 686 x 254 x 299	299.8	28.82	10.35	0.94	1.69	0.60	24.2	3.06	25.8	7779	314
W27 x 10	182	† 686 x 254 x 271	270.8	28.50	10.24	0.85	1.54	0.60	24.2	3.33	28.5	6950	277
W27 x 10	159	† 686 x 254 x 237	236.0	28.11	10.15	0.75	1.34	0.60	24.2	3.79	32.2	5952	234
W27 x 10	129	† 686 x 254 x 192	191.4	27.64	10.00	0.61	1.10	0.60	24.2	4.55	39.7	4757	184
W27 x 10	114	686 x 254 x 170	170.2	27.28	10.07	0.57	0.93	0.60	24.2	5.40	42.4	4092	159
W27 x 10	102	686 x 254 x 152	152.4	27.07	10.02	0.52	0.83	0.60	24.2	6.06	46.6	3612	139
W27 x 10	94	686 x 254 x 140	140.1	26.91	9.99	0.49	0.75	0.60	24.2	6.68	49.6	3274	125
W27 x 10	84	686 x 254 x 125	125.2	26.69	9.96	0.46	0.64	0.60	24.2	7.81	52.6	2835	105
W24 x 12¾	306	† 610 x 324 x 455	455.0	27.14	13.39	1.26	2.28	0.65	21.3	2.94	16.9	10710	915
W24 x 12¾	279	† 610 x 324 x 415	416.3	26.73	13.31	1.16	2.09	0.65	21.3	3.18	18.3	9621	824
W24 x 12¾	250	† 610 x 324 x 372	373.0	26.34	13.19	1.04	1.89	0.65	21.3	3.49	20.5	8501	724
W24 x 12¾	229	† 610 x 324 x 341	341.1	26.02	13.11	0.96	1.73	0.65	21.3	3.79	22.1	7661	651
W24 x 12¾	207	† 610 x 324 x 307	308.2	25.71	13.01	0.87	1.57	0.65	21.3	4.14	24.4	6839	578
W24 x 12¾	192	† 610 x 324 x 285	286.1	25.47	12.95	0.81	1.46	0.65	21.3	4.43	26.2	6281	530
W24 x 12¾	176	† 610 x 324 x 262	261.9	25.24	12.87	0.75	1.34	0.65	21.3	4.81	28.4	5687	477
W24 x 12¾	162	† 610 x 324 x 241	238.9	25.00	12.95	0.67	1.22	0.65	21.3	5.31	31.6	5163	443
W24 x 12¾	146	† 610 x 324 x 217	218.6	24.72	12.91	0.65	1.09	0.65	21.2	5.92	32.7	4601	392
W24 x 12¾	131	† 610 x 324 x 195	196.4	24.49	12.87	0.61	0.96	0.65	21.3	6.70	35.1	4050	342
W24 x 12¾	117	† 610 x 324 x 174	175.0	24.25	12.80	0.55	0.85	0.65	21.3	7.52	38.6	3552	297
W24 x 12¾	104	† 610 x 324 x 155	155.6	24.06	12.76	0.50	0.75	0.65	21.3	8.53	42.5	3116	259
UB24 x 12	160	610 x 305 x 238	238.1	25.03	12.26	0.72	1.24	0.65	21.3	4.96	29.3	5033	380
UB24 x 12	120	610 x 305 x 179	179.0	24.42	12.09	0.56	0.93	0.65	21.3	6.51	38.3	3676	274
UB24 x 12	100	610 x 305 x 149	149.2	24.11	12.00	0.46	0.78	0.65	21.3	7.74	45.8	3024	224
W24 x 9	198	† 610 x 229 x 295	295.1	26.26	9.47	1.02	1.85	0.50	21.6	2.56	21.1	6232	264
W24 x 9	163	† 610 x 229 x 243	243.1	25.63	9.29	0.85	1.54	0.50	21.6	3.02	25.3	4995	207
W24 x 9	146	† 610 x 229 x 217	218.2	25.32	9.22	0.77	1.38	0.50	21.6	3.33	27.9	4417	181
W24 x 9	128	† 610 x 229 x 191	190.2	25.00	9.11	0.67	1.22	0.50	21.6	3.73	32.2	3815	155
W24 x 9	114	† 610 x 229 x 171	171.6	24.76	9.06	0.61	1.10	0.50	21.6	4.12	35.3	3397	136
W24 x 9	103	† 610 x 229 x 153	153.5	24.53	9.00	0.55	0.98	0.50	21.6	4.59	39.1	3003	119
W24 x 9	94	610 x 229 x 140	139.9	24.30	9.06	0.52	0.87	0.50	21.6	5.21	41.8	2685	108
W24 x 9	84	610 x 229 x 125	125.1	24.10	9.02	0.47	0.77	0.50	21.6	5.84	46.0	2369	94.5
W24 x 9	76	610 x 229 x 113	113.0	23.94	8.98	0.44	0.68	0.50	21.6	6.60	49.4	2101	82.5
W24 x 9	68	610 x 229 x 101	101.2	23.72	8.96	0.41	0.58	0.50	21.6	7.69	52.2	1821	70.0

† 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.



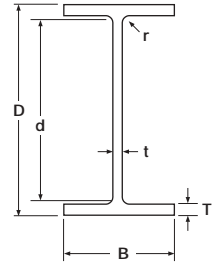
W SHAPES in accordance with ASTM A6/A6M

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 in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
11.5	2.33	593	67.5	695	107	0.877	17.2	65450	52.5	64.8	221	W27 x 10
11.5	2.30	540	60.6	630	96.2	0.877	18.6	57720	40.3	59.2	201	W27 x 10
11.4	2.28	488	54.1	566	85.5	0.878	20.3	50380	30.3	53.5	182	W27 x 10
11.3	2.24	424	46.2	489	72.7	0.877	23.0	41970	20.2	46.6	159	W27 x 10
11.2	2.20	344	36.7	394	57.4	0.878	27.7	32330	11.1	37.8	129	W27 x 10
11.0	2.18	300	31.6	344	49.5	0.872	31.8	27640	7.39	33.6	114	W27 x 10
11.0	2.15	267	27.7	305	43.3	0.871	35.5	23920	5.28	30.1	102	W27 x 10
10.9	2.12	243	24.9	278	38.9	0.868	38.7	21310	4.05	27.7	94	W27 x 10
10.7	2.06	212	21.1	244	33.1	0.862	43.9	17870	2.79	24.7	84	W27 x 10
10.9	3.19	789	137	923	213	0.889	12.2	141400	119	89.8	306	W24 x 12½
10.8	3.17	720	124	837	193	0.889	13.2	125100	91.9	82.2	279	W24 x 12½
10.7	3.14	646	110	745	171	0.890	14.5	108200	67.5	73.6	250	W24 x 12½
10.7	3.11	589	99.3	677	154	0.890	15.7	96020	51.9	67.4	229	W24 x 12½
10.6	3.08	532	88.8	608	137	0.890	17.1	84130	38.9	60.9	207	W24 x 12½
10.5	3.06	493	81.9	561	126	0.890	18.2	76420	31.3	56.5	192	W24 x 12½
10.5	3.04	451	74.1	511	114	0.890	19.8	68090	24.2	51.7	176	W24 x 12½
10.5	3.06	413	68.4	466	105	0.891	21.5	62580	18.4	47.2	162	W24 x 12½
10.3	3.01	372	60.7	419	93.5	0.887	23.7	54740	13.7	43.2	146	W24 x 12½
10.2	2.97	331	53.1	372	81.8	0.884	26.5	47340	9.77	38.8	131	W24 x 12½
10.1	2.93	293	46.5	329	71.5	0.882	29.6	40700	6.92	34.6	117	W24 x 12½
10.1	2.90	259	40.6	290	62.4	0.881	33.2	35180	4.85	30.7	104	W24 x 12½
10.3	2.84	402	62.1	457	96.0	0.886	21.3	53860	18.9	47.0	160	UB24 x 12
10.2	2.78	301	45.3	339	69.8	0.886	27.7	37800	8.17	35.4	120	UB24 x 12
10.1	2.76	251	37.3	280	57.2	0.886	32.7	30440	4.80	29.5	100	UB24 x 12
10.3	2.13	475	55.7	560	88.9	0.878	15.4	39300	46.9	58.3	198	W24 x 9
10.2	2.08	390	44.6	455	70.6	0.878	18.2	30030	27.0	48.0	163	W24 x 9
10.1	2.05	349	39.3	405	62.2	0.877	20.0	25960	19.7	43.1	146	W24 x 9
10.1	2.03	305	33.9	352	53.3	0.879	22.5	21860	13.4	37.6	128	W24 x 9
10.0	2.01	274	30.1	315	47.2	0.878	24.8	19090	9.87	33.9	114	W24 x 9
9.96	1.99	245	26.5	280	41.5	0.878	27.6	16560	7.09	30.3	103	W24 x 9
9.86	1.98	221	23.9	253	37.3	0.875	30.6	14850	5.20	27.6	94	W24 x 9
9.79	1.96	197	21.0	224	32.7	0.873	34.1	12860	3.70	24.7	84	W24 x 9
9.70	1.92	176	18.4	200	28.6	0.870	38.0	11160	2.67	22.3	76	W24 x 9
9.55	1.87	153	15.6	176	24.4	0.864	43.1	9376	1.85	20.0	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

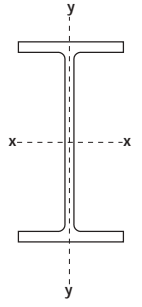
Dimensions and Properties

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W24 x 7	62	† 610 x 178 x 92	92.3	23.74	7.05	0.43	0.59	0.50	21.6	5.97	50.2	1553	34.6
W24 x 7	55	† 610 x 178 x 82	81.9	23.58	7.01	0.39	0.50	0.50	21.6	6.95	54.8	1345	29.0
W21 x 12½	275	† 533 x 312 x 409	409.0	24.13	12.89	1.22	2.19	0.50	18.8	2.94	15.4	7618	784
W21 x 12½	248	† 533 x 312 x 370	369.4	23.74	12.77	1.11	1.99	0.50	18.8	3.21	16.9	6759	693
W21 x 12½	223	† 533 x 312 x 331	331.2	23.35	12.68	1.00	1.79	0.50	18.8	3.54	18.8	5952	610
W21 x 12½	201	† 533 x 312 x 300	299.5	23.03	12.56	0.91	1.63	0.50	18.8	3.85	20.6	5303	539
W21 x 12½	182	† 533 x 312 x 272	271.3	22.72	12.48	0.83	1.48	0.50	18.8	4.22	22.6	4727	481
W21 x 12½	166	† 533 x 312 x 248	246.6	22.48	12.40	0.75	1.36	0.50	18.8	4.57	25.1	4264	433
W21 x 12½	147	† 533 x 312 x 219	218.9	22.05	12.52	0.72	1.15	0.50	18.7	5.45	26.0	3629	377
W21 x 12½	132	† 533 x 312 x 196	196.5	21.81	12.44	0.65	1.04	0.50	18.7	6.01	28.8	3219	333
W21 x 12½	122	† 533 x 312 x 182	181.7	21.69	12.40	0.60	0.96	0.50	18.8	6.45	31.4	2968	306
W21 x 12½	111	† 533 x 312 x 165	165.3	21.50	12.32	0.55	0.87	0.50	18.7	7.05	34.0	2666	273
W21 x 12½	101	† 533 x 312 x 150	150.6	21.38	12.28	0.50	0.80	0.50	18.8	7.68	37.6	2423	247
W21 x 8½	93	† 533 x 210 x 138	138.3	21.61	8.43	0.58	0.93	0.50	18.8	4.53	32.4	2068	93.0
W21 x 8½	83	533 x 210 x 122	122.0	21.44	8.35	0.50	0.84	0.50	18.8	4.98	37.5	1828	81.5
W21 x 8½	73	533 x 210 x 109	109.0	21.24	8.30	0.46	0.74	0.50	18.8	5.61	41.1	1605	70.7
W21 x 8½	68	533 x 210 x 101	101.0	21.13	8.27	0.43	0.69	0.50	18.8	6.03	44.1	1478	64.7
W21 x 8½	62	533 x 210 x 92	92.1	20.99	8.24	0.40	0.61	0.50	18.8	6.71	47.2	1327	57.4
UB21 x 8½	55	533 x 210 x 82	82.2	20.80	8.22	0.38	0.52	0.50	18.8	7.91	49.6	1142	48.2
W21 x 6½	57	† 533 x 165 x 85	84.7	21.06	6.54	0.41	0.65	0.50	18.8	5.03	46.3	1166	30.4
W21 x 6½	50	† 533 x 165 x 74	74.7	20.83	6.54	0.38	0.54	0.50	18.8	6.10	49.1	986	25.0
W21 x 6½	44	† 533 x 165 x 66	65.7	20.67	6.50	0.35	0.45	0.50	18.8	7.24	53.6	842	20.6
W18 x 7½	71	† 457 x 191 x 106	106.1	18.46	7.64	0.50	0.81	0.50	15.8	4.71	31.9	1178	60.4
W18 x 7½	65	457 x 191 x 98	98.3	18.39	7.59	0.45	0.77	0.40	16.0	4.92	35.8	1099	56.4
W18 x 7½	60	457 x 191 x 89	89.3	18.24	7.56	0.41	0.70	0.40	16.0	5.42	38.8	985	50.2
W18 x 7½	55	457 x 191 x 82	82.0	18.11	7.53	0.39	0.63	0.40	16.0	5.98	41.2	890	44.9
W18 x 7½	50	457 x 191 x 74	74.3	17.99	7.50	0.35	0.57	0.40	16.0	6.57	45.3	801	40.1
UB18 x 7½	45	457 x 191 x 67	67.1	17.85	7.48	0.33	0.50	0.40	16.0	7.48	48.0	706	34.9
W18 x 6	46	457 x 152 x 67	67.2	18.03	6.06	0.35	0.59	0.40	16.0	5.13	45.3	695	21.9
W18 x 6	40	457 x 152 x 60	59.8	17.90	6.02	0.32	0.52	0.40	16.0	5.75	50.3	613	19.1
W18 x 6	35	457 x 152 x 52	52.3	17.71	6.00	0.30	0.43	0.40	16.0	6.99	53.6	513	15.5
W16 x 7	57	† 406 x 178 x 85	85.0	16.42	7.13	0.43	0.72	0.40	14.2	4.97	33.0	758	43.3
W16 x 7	50	406 x 178 x 74	74.2	16.25	7.07	0.37	0.63	0.40	14.2	5.61	37.9	656	37.1
W16 x 7	45	406 x 178 x 67	67.1	16.12	7.04	0.35	0.56	0.40	14.2	6.25	41.0	585	32.8
W16 x 7	40	406 x 178 x 60	60.1	16.00	7.00	0.31	0.50	0.40	14.2	6.95	45.6	519	28.9
W16 x 7	36	406 x 178 x 54	54.1	15.85	7.00	0.30	0.43	0.40	14.2	8.15	46.8	450	24.5

† 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.



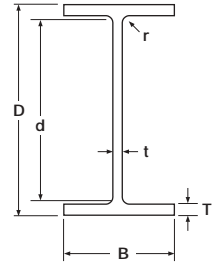
W SHAPES in accordance with ASTM A6/A6M

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 in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
9.23	1.38	131	9.83	153	15.8	0.848	42.8	4638	1.71	18.2	62	W24 x 7
9.12	1.34	114	8.29	134	13.3	0.843	48.5	3867	1.17	16.2	55	W24 x 7
9.71	3.12	631	122	740	189	0.890	11.2	94410	99.3	80.8	275	W21 x 12½
9.63	3.08	569	108	663	168	0.890	12.2	81930	74.4	72.9	248	W21 x 12½
9.54	3.05	510	96.2	589	149	0.890	13.4	70850	54.4	65.4	223	W21 x 12½
9.47	3.02	461	85.9	529	133	0.890	14.6	61770	40.8	59.1	201	W21 x 12½
9.39	3.00	416	77.0	475	119	0.890	15.9	54190	30.7	53.6	182	W21 x 12½
9.36	2.98	379	69.8	431	107	0.891	17.2	48240	23.5	48.7	166	W21 x 12½
9.16	2.95	329	60.2	373	92.8	0.884	19.8	41120	15.4	43.2	147	W21 x 12½
9.11	2.93	295	53.5	333	82.3	0.884	21.8	35910	11.3	38.8	132	W21 x 12½
9.10	2.92	274	49.3	308	75.7	0.885	23.4	32860	8.98	35.9	122	W21 x 12½
9.04	2.89	248	44.3	278	67.9	0.885	25.6	29010	6.81	32.6	111	W21 x 12½
9.03	2.88	227	40.2	253	61.6	0.885	27.9	26160	5.20	29.7	101	W21 x 12½
8.70	1.85	191	22.1	220	34.7	0.874	24.9	9945	6.01	27.3	93	W21 x 8¾
8.71	1.84	171	19.5	195	30.5	0.877	27.6	8645	4.29	24.1	83	W21 x 8¾
8.64	1.81	151	17.0	173	26.6	0.875	30.9	7428	3.04	21.5	73	W21 x 8¾
8.61	1.80	140	15.6	159	24.4	0.874	33.2	6758	2.43	19.9	68	W21 x 8¾
8.54	1.78	126	13.9	144	21.7	0.872	36.5	5957	1.82	18.2	62	W21 x 8¾
8.39	1.72	110	11.7	126	18.3	0.864	41.6	4958	1.24	16.2	55	UB21 x 8¾
8.35	1.35	111	9.29	128	14.7	0.862	35.5	3162	1.77	16.7	57	W21 x 6½
8.18	1.30	94.7	7.66	110	12.2	0.853	41.1	2576	1.15	14.8	50	W21 x 6½
8.06	1.26	81.5	6.34	95.3	10.1	0.847	47.0	2105	0.768	13.0	44	W21 x 6½
7.50	1.70	128	15.8	146	24.8	0.878	24.2	4708	3.59	21.0	71	W18 x 7½
7.52	1.70	119	14.9	136	23.1	0.881	25.7	4378	2.91	19.4	65	W18 x 7½
7.48	1.69	108	13.3	123	20.6	0.880	28.3	3864	2.18	17.6	60	W18 x 7½
7.41	1.67	98.3	11.9	112	18.5	0.877	30.9	3434	1.66	16.2	55	W18 x 7½
7.39	1.65	89.0	10.7	101	16.6	0.877	33.9	3046	1.24	14.7	50	W18 x 7½
7.30	1.62	79.1	9.33	89.8	14.5	0.872	37.9	2626	0.892	13.3	45	UB18 x 7½
7.24	1.29	77.1	7.24	88.7	11.4	0.869	33.6	1667	1.15	13.3	46	W18 x 6
7.20	1.27	68.5	6.34	78.6	9.95	0.868	37.5	1441	0.813	11.8	40	W18 x 6
7.05	1.22	58.0	5.17	66.9	8.13	0.859	43.9	1157	0.514	10.3	35	W18 x 6
6.72	1.61	92.3	12.2	105	18.9	0.881	24.4	2670	2.23	16.8	57	W16 x 7
6.69	1.59	80.7	10.5	91.6	16.3	0.882	27.6	2265	1.51	14.6	50	W16 x 7
6.64	1.57	72.5	9.32	82.1	14.4	0.880	30.5	1984	1.11	13.3	45	W16 x 7
6.61	1.56	64.9	8.25	73.2	12.8	0.880	33.8	1735	0.800	11.9	40	W16 x 7
6.49	1.52	56.8	7.01	64.4	10.9	0.871	38.3	1459	0.556	10.7	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

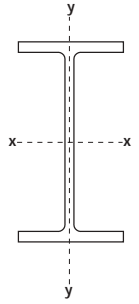
Dimensions and Properties

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W16 x 5½	31	406 x 140 x 46	46.0	15.87	5.60	0.27	0.44	0.40	14.2	6.35	53.0	377	12.9
W16 x 5½	26	406 x 140 x 39	39.0	15.67	5.58	0.25	0.34	0.40	14.2	8.24	56.3	301	9.85
W14 x 16	730	† 356 x 406 x 1086	1087.9	22.40	17.87	3.07	4.92	0.60	11.4	1.82	3.70	14310	4715
W14 x 16	665	† 356 x 406 x 990	991.0	21.65	17.64	2.83	4.53	0.60	11.4	1.95	4.03	12470	4165
W14 x 16	605	† 356 x 406 x 900	902.2	20.91	17.40	2.59	4.17	0.60	11.4	2.08	4.38	10820	3684
W14 x 16	550	† 356 x 406 x 818	819.0	20.24	17.20	2.38	3.82	0.60	11.4	2.25	4.79	9423	3256
W14 x 16	500	† 356 x 406 x 744	744.3	19.61	17.01	2.19	3.50	0.60	11.4	2.43	5.21	8220	2881
W14 x 16	455	† 356 x 406 x 677	677.8	19.02	16.85	2.02	3.21	0.60	11.4	2.63	5.66	7195	2568
W14 x 16	426	356 x 406 x 634	633.9	18.69	16.69	1.87	3.03	0.60	11.4	2.75	6.10	6603	2357
W14 x 16	398	† 356 x 406 x 592	592.6	18.31	16.57	1.77	2.85	0.60	11.4	2.91	6.44	6010	2166
W14 x 16	370	356 x 406 x 551	551.0	17.94	16.48	1.66	2.66	0.60	11.4	3.10	6.89	5452	1986
W14 x 16	342	† 356 x 406 x 509	509.5	17.56	16.38	1.54	2.47	0.60	11.4	3.32	7.42	4914	1812
W14 x 16	311	† 356 x 406 x 463	462.8	17.13	16.22	1.41	2.26	0.60	11.4	3.59	8.09	4329	1611
W14 x 16	283	† 356 x 406 x 421	421.7	16.73	16.10	1.29	2.07	0.60	11.4	3.89	8.82	3834	1443
UC14 x 16	264	356 x 406 x 393	393.0	16.50	16.02	1.20	1.94	0.60	11.4	4.14	9.48	3523	1330
W14 x 16	257	† 356 x 406 x 382	382.4	16.38	15.98	1.17	1.89	0.60	11.4	4.23	9.72	3395	1288
W14 x 16	233	† 356 x 406 x 347	347.0	16.02	15.91	1.07	1.72	0.60	11.4	4.62	10.6	3002	1155
UC14 x 16	228	356 x 406 x 340	339.9	16.00	15.87	1.05	1.69	0.60	11.4	4.70	10.9	2944	1126
W14 x 16	211	† 356 x 406 x 314	313.4	15.71	15.79	0.98	1.56	0.60	11.4	5.06	11.6	2649	1024
W14 x 16	193	356 x 406 x 287	287.1	15.50	15.71	0.89	1.44	0.60	11.4	5.47	12.8	2400	929
W14 x 16	176	† 356 x 406 x 262	262.7	15.24	15.67	0.83	1.31	0.60	11.4	5.98	13.7	2148	841
W14 x 16	159	356 x 406 x 235	235.1	15.00	15.54	0.72	1.19	0.60	11.4	6.54	15.8	1900	745
W14 x 16	145	† 356 x 406 x 216	216.3	14.76	15.51	0.68	1.09	0.60	11.4	7.11	16.7	1709	679
UC14 x 14½	136	356 x 368 x 202	201.9	14.75	14.75	0.65	1.06	0.60	11.4	6.94	17.6	1592	569
W14 x 14½	132	† 356 x 368 x 196	196.5	14.65	14.72	0.65	1.03	0.60	11.4	7.14	17.6	1529	549
W14 x 14½	120	† 356 x 368 x 179	179.2	14.49	14.69	0.59	0.94	0.60	11.4	7.80	19.3	1380	497
W14 x 14½	109	† 356 x 368 x 162	162.0	14.33	14.61	0.52	0.86	0.60	11.4	8.51	21.8	1239	446
UC14 x 14½	103	356 x 368 x 153	152.9	14.25	14.59	0.48	0.81	0.60	11.4	8.95	23.6	1167	422
W14 x 14½	99	† 356 x 368 x 147	147.5	14.17	14.57	0.48	0.78	0.60	11.4	9.34	23.6	1112	402
W14 x 14½	90	† 356 x 368 x 134	134.0	14.02	14.53	0.44	0.71	0.60	11.4	10.3	25.9	998	362
UC14 x 14½	87	356 x 368 x 129	129.0	14.00	14.51	0.41	0.69	0.60	11.4	10.5	27.9	967	351
UB14 x 6¾	45	356 x 171 x 67	67.1	14.31	6.82	0.36	0.62	0.40	12.3	5.52	34.2	468	32.7
W14 x 6¾	38	356 x 171 x 57	57.0	14.09	6.78	0.32	0.51	0.40	12.3	6.62	38.5	385	26.6
W14 x 6¾	34	356 x 171 x 51	51.0	13.98	6.75	0.29	0.45	0.40	12.3	7.46	42.1	340	23.3
W14 x 6¾	30	356 x 171 x 45	45.0	13.83	6.74	0.28	0.38	0.40	12.3	8.82	44.5	290	19.5

† 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

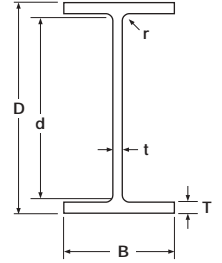
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
6.44	1.19	47.5	4.62	54.2	7.21	0.871	38.9	770	0.457	9.09	31	W16 x 5½
6.25	1.13	38.4	3.53	44.2	5.54	0.858	47.5	579	0.257	7.70	26	W16 x 5½
8.16	4.69	1278	528	1661	816	0.851	3.80	360200	1454	215	730	W14 x 16
7.98	4.61	1152	472	1482	730	0.850	4.04	305400	1128	196	665	W14 x 16
7.79	4.55	1035	423	1319	653	0.848	4.27	257900	875	178	605	W14 x 16
7.63	4.49	931	379	1175	583	0.846	4.57	219400	669	162	550	W14 x 16
7.48	4.43	838	339	1048	522	0.845	4.88	186900	514	147	500	W14 x 16
7.33	4.38	757	305	937	469	0.843	5.21	160400	395	134	455	W14 x 16
7.26	4.34	707	282	869	434	0.843	5.46	144400	330	125	426	W14 x 16
7.17	4.30	657	261	802	401	0.842	5.73	129500	273	117	398	W14 x 16
7.08	4.27	608	241	737	370	0.841	6.05	115900	222	109	370	W14 x 16
6.99	4.24	560	221	673	339	0.840	6.43	103100	178	101	342	W14 x 16
6.88	4.20	506	199	603	304	0.839	6.90	88980	136	91.4	311	W14 x 16
6.79	4.16	458	179	542	274	0.837	7.42	77570	104	83.3	283	W14 x 16
6.74	4.14	427	166	502	253	0.837	7.86	70490	85.2	77.6	264	UC14 x 16
6.71	4.13	415	161	486	246	0.837	8.02	67600	79.0	75.5	257	W14 x 16
6.62	4.11	375	145	436	221	0.835	8.68	59090	59.6	68.5	233	W14 x 16
6.62	4.10	368	142	427	216	0.836	8.85	57640	56.3	67.1	228	UC14 x 16
6.54	4.07	337	130	389	197	0.834	9.45	51230	44.5	61.9	211	W14 x 16
6.51	4.05	310	118	355	180	0.835	10.2	45920	34.6	56.7	193	W14 x 16
6.44	4.03	282	107	321	163	0.833	11.0	40790	26.6	51.9	176	W14 x 16
6.40	4.01	253	95.8	286	145	0.834	12.1	35510	19.5	46.4	159	W14 x 16
6.33	3.99	232	87.5	260	133	0.832	13.0	31730	15.2	42.7	145	W14 x 16
6.32	3.78	216	77.2	242	117	0.844	13.4	26650	13.4	39.9	136	UC14 x 14½
6.28	3.76	209	74.6	234	113	0.843	13.7	25450	12.3	38.8	132	W14 x 14½
6.25	3.75	191	67.7	213	103	0.842	14.9	22800	9.41	35.4	120	W14 x 14½
6.22	3.73	173	61.1	192	92.5	0.843	16.2	20240	7.07	32.0	109	W14 x 14½
6.22	3.74	164	57.8	181	87.5	0.844	17.0	19040	6.02	30.2	103	UC14 x 14½
6.18	3.71	157	55.2	173	83.6	0.843	17.7	18020	5.36	29.1	99	W14 x 14½
6.14	3.70	142	49.9	156	75.5	0.842	19.3	16040	4.05	26.5	90	W14 x 14½
6.16	3.71	138	48.4	151	73.2	0.844	19.9	15550	3.67	25.5	87	UC14 x 14½
5.94	1.57	65.4	9.60	73.9	14.8	0.886	24.4	1533	1.34	13.3	45	UB14 x 6¾
5.85	1.54	54.7	7.85	61.6	12.1	0.882	28.8	1228	0.802	11.2	38	W14 x 6¾
5.81	1.52	48.6	6.89	54.7	10.6	0.881	32.1	1064	0.572	10.1	34	W14 x 6¾
5.71	1.48	41.9	5.79	47.3	8.94	0.874	36.8	882	0.381	8.89	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

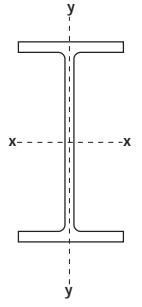


Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Depth of Section D in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W14 x 5	26	356 x 127 x 39	39.1	13.91	4.96	0.26	0.42	0.40	12.3	5.89	47.2	244	8.60
W14 x 5	22	356 x 127 x 33	33.1	13.74	4.94	0.24	0.33	0.40	12.3	7.38	51.9	198	6.73
W12 x 12	336	† 305 x 305 x 500	500.5	16.82	13.39	1.78	2.96	0.60	9.7	2.26	5.47	4061	1187
W12 x 12	305	† 305 x 305 x 454	454.0	16.34	13.23	1.63	2.70	0.60	9.7	2.45	5.99	3555	1048
W12 x 12	279	† 305 x 305 x 415	415.1	15.87	13.15	1.53	2.47	0.60	9.7	2.66	6.35	3122	939
W12 x 12	252	† 305 x 305 x 375	374.8	15.39	12.99	1.39	2.25	0.60	9.7	2.88	6.95	2710	826
W12 x 12	230	† 305 x 305 x 342	343.3	15.04	12.91	1.28	2.07	0.60	9.7	3.12	7.56	2415	745
W12 x 12	210	† 305 x 305 x 313	313.2	14.71	12.79	1.18	1.90	0.60	9.7	3.36	8.22	2146	665
W12 x 12	190	305 x 305 x 283	282.9	14.38	12.69	1.06	1.74	0.60	9.7	3.65	9.21	1895	592
W12 x 12	170	† 305 x 305 x 253	252.9	14.02	12.56	0.96	1.56	0.60	9.7	4.03	10.1	1639	516
UC12 x 12	161	305 x 305 x 240	240.0	13.88	12.54	0.91	1.48	0.60	9.7	4.22	10.7	1542	488
W12 x 12	152	† 305 x 305 x 226	226.8	13.70	12.48	0.87	1.40	0.60	9.7	4.45	11.1	1431	455
W12 x 12	136	† 305 x 305 x 202	202.6	13.43	12.40	0.79	1.25	0.60	9.7	4.95	12.3	1249	399
UC12 x 12	133	† 305 x 305 x 198	198.1	13.38	12.38	0.75	1.24	0.60	9.7	5.01	12.9	1223	392
W12 x 12	120	† 305 x 305 x 179	178.8	13.11	12.32	0.71	1.11	0.60	9.7	5.57	13.7	1070	345
W12 x 12	106	305 x 305 x 158	158.1	12.88	12.25	0.62	0.98	0.60	9.7	6.22	15.6	931	302
W12 x 12	96	† 305 x 305 x 143	143.1	12.72	12.17	0.55	0.90	0.60	9.7	6.75	17.6	835	271
UC12 x 12	92	305 x 305 x 137	136.9	12.62	12.17	0.54	0.85	0.60	9.7	7.12	17.9	788	257
W12 x 12	87	† 305 x 305 x 129	129.6	12.52	12.13	0.52	0.81	0.60	9.7	7.48	18.8	740	241
W12 x 12	79	305 x 305 x 118	117.9	12.38	12.10	0.47	0.74	0.60	9.7	8.22	20.6	665	218
W12 x 12	72	† 305 x 305 x 107	106.9	12.24	12.05	0.43	0.67	0.60	9.7	9.00	22.6	596	195
W12 x 12	65	305 x 305 x 97	96.9	12.12	12.02	0.39	0.61	0.60	9.7	9.91	24.9	535	176
*UB12 x 6½	36	305 x 165 x 54	54.0	12.22	6.57	0.31	0.54	0.35	10.4	6.09	33.6	281	25.5
*UB12 x 6½	31	305 x 165 x 46	46.1	12.09	6.52	0.26	0.46	0.35	10.5	7.02	39.7	239	21.5
*UB12 x 6½	27	305 x 165 x 40	40.3	11.94	6.50	0.24	0.40	0.35	10.4	8.09	44.2	204	18.4
UB12 x 5	32	305 x 127 x 48	48.1	12.24	4.93	0.35	0.55	0.35	10.4	4.48	29.5	230	11.1
UB12 x 5	28	305 x 127 x 42	41.9	12.09	4.89	0.31	0.48	0.35	10.4	5.14	33.2	197	9.34
UB12 x 5	25	305 x 127 x 37	37.0	11.98	4.86	0.28	0.42	0.35	10.4	5.77	37.4	172	8.08
W12 x 4	22	305 x 102 x 33	32.8	12.31	4.03	0.26	0.43	0.30	10.9	4.74	41.8	156	4.66
W12 x 4	19	305 x 102 x 28	28.2	12.15	4.01	0.24	0.35	0.30	10.9	5.78	46.0	129	3.73
W12 x 4	16	305 x 102 x 25	24.8	12.01	4.00	0.23	0.28	0.30	10.9	7.26	47.6	107	2.95

† 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

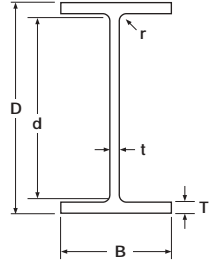
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³							
5.63	1.06	35.1	3.47	40.2	5.43	0.871	35.2	391	0.363	7.71	26	W14 x 5
5.51	1.02	28.8	2.73	33.1	4.29	0.863	42.2	302	0.211	6.53	22	W14 x 5
6.41	3.47	483	177	603	274	0.861	5.00	57040	243	98.8	336	W12 x 12
6.30	3.42	435	158	538	244	0.860	5.37	48690	185	89.6	305	W12 x 12
6.17	3.38	393	143	482	220	0.857	5.74	42140	143	82.0	279	W12 x 12
6.05	3.34	352	127	427	196	0.856	6.16	35650	108	74.0	252	W12 x 12
5.97	3.32	321	115	387	177	0.855	6.60	31340	84.0	67.8	230	W12 x 12
5.89	3.28	292	104	348	160	0.855	7.08	27270	64.9	61.8	210	W12 x 12
5.82	3.25	264	93.3	312	143	0.855	7.65	23660	48.9	55.9	190	W12 x 12
5.73	3.21	234	82.1	274	126	0.854	8.36	20000	35.5	49.9	170	W12 x 12
5.70	3.21	222	77.9	259	119	0.854	8.74	18740	30.5	47.4	161	UC12 x 12
5.65	3.19	209	72.9	243	111	0.853	9.16	17200	25.9	44.8	152	W12 x 12
5.59	3.16	186	64.3	214	98.1	0.852	10.1	14760	18.6	40.0	136	W12 x 12
5.59	3.16	183	63.3	210	96.5	0.854	10.2	14440	17.6	39.1	133	UC12 x 12
5.51	3.13	163	56.1	186	85.5	0.851	11.2	12440	12.9	35.3	120	W12 x 12
5.46	3.11	145	49.3	164	75.1	0.851	12.5	10680	9.08	31.2	106	W12 x 12
5.44	3.10	131	44.5	148	67.7	0.853	13.5	9448	6.89	28.3	96	W12 x 12
5.40	3.08	125	42.2	140	64.2	0.851	14.2	8893	5.98	27.0	92	UC12 x 12
5.37	3.07	118	39.8	132	60.5	0.851	14.8	8266	5.12	25.6	87	W12 x 12
5.34	3.06	107	36.0	119	54.6	0.850	16.2	7379	3.87	23.3	79	W12 x 12
5.31	3.04	97.3	32.4	108	49.2	0.850	17.6	6537	2.92	21.1	72	W12 x 12
5.29	3.03	88.2	29.2	97.2	44.3	0.850	19.3	5821	2.19	19.1	65	W12 x 12
5.13	1.55	46.0	7.76	51.6	11.9	0.889	23.6	870	0.835	10.7	36	*UB12 x 6½
5.12	1.54	39.5	6.60	44.0	10.1	0.891	27.2	727	0.533	9.11	31	*UB12 x 6½
5.07	1.52	34.2	5.66	38.0	8.66	0.889	31.0	613	0.354	7.96	27	*UB12 x 6½
4.92	1.08	37.6	4.49	43.4	7.08	0.873	23.3	379	0.763	9.49	32	UB12 x 5
4.88	1.06	32.6	3.82	37.4	6.00	0.872	26.5	315	0.508	8.28	28	UB12 x 5
4.85	1.05	28.8	3.32	32.9	5.21	0.872	29.7	270	0.355	7.31	25	UB12 x 5
4.91	0.848	25.4	2.31	29.3	3.66	0.866	31.6	165	0.293	6.48	22	W12 x 4
4.81	0.819	21.2	1.86	24.6	2.96	0.859	37.4	130	0.178	5.56	19	W12 x 4
4.67	0.777	17.8	1.48	20.9	2.37	0.846	43.4	102	0.115	4.90	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

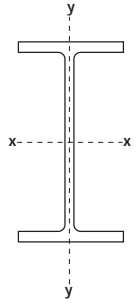
Supplemented by structural sections in accordance with BS4: Part 1



Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Depth of Section D in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis xx in ⁴	Axis yy in ⁴
W10 x 10	112	254 x 254 x 167	167.1	11.38	10.44	0.76	1.25	0.50	7.9	4.18	10.4	721	237
W10 x 10	100	† 254 x 254 x 149	148.9	11.10	10.35	0.68	1.12	0.50	7.9	4.63	11.5	623	207
W10 x 10	88	254 x 254 x 132	132.0	10.88	10.29	0.60	1.00	0.50	7.9	5.16	13.1	541	181
W10 x 10	77	† 254 x 254 x 115	114.8	10.59	10.20	0.53	0.87	0.50	7.9	5.86	14.8	455	154
UC10 x 10	72	254 x 254 x 107	107.1	10.50	10.19	0.50	0.81	0.50	7.9	6.31	15.6	421	142
W10 x 10	68	† 254 x 254 x 101	101.3	10.40	10.13	0.47	0.77	0.50	7.9	6.56	16.8	394	134
W10 x 10	60	254 x 254 x 89	88.9	10.25	10.09	0.41	0.68	0.50	7.9	7.41	19.4	343	117
W10 x 10	54	† 254 x 254 x 80	80.1	10.09	10.03	0.37	0.61	0.50	7.9	8.16	21.3	303	103
W10 x 10	49	254 x 254 x 73	73.1	10.00	10.02	0.34	0.56	0.50	7.9	8.96	23.3	274	93.9
W10 x 5¾	30	† 254 x 146 x 45	44.8	10.47	5.81	0.30	0.51	0.30	8.8	5.68	29.6	170	16.8
UB10 x 5¾	29	254 x 146 x 43	43.0	10.22	5.80	0.28	0.50	0.30	8.6	5.80	30.4	157	16.3
W10 x 5¾	26	† 254 x 146 x 39	38.6	10.33	5.77	0.26	0.44	0.30	8.9	6.54	34.1	144	14.1
UB10 x 5¾	25	254 x 146 x 37	37.0	10.08	5.76	0.25	0.43	0.30	8.6	6.72	34.8	133	13.7
W10 x 5¾	22	† 254 x 146 x 33	32.8	10.17	5.75	0.24	0.36	0.30	8.9	8.03	36.9	118	11.4
UB10 x 5¾	21	254 x 146 x 31	31.1	9.90	5.75	0.24	0.34	0.30	8.6	8.49	36.5	106	10.8
W10 x 4	19	254 x 102 x 28	28.3	10.25	4.02	0.25	0.39	0.30	8.9	5.11	35.7	96.2	4.29
W10 x 4	17	254 x 102 x 25	25.2	10.13	4.01	0.24	0.33	0.30	8.9	6.07	37.5	82.0	3.57
W10 x 4	15	254 x 102 x 22	22.0	10.00	4.00	0.22	0.27	0.30	8.9	7.47	39.5	68.3	2.87
W8 x 8	67	† 203 x 203 x 100	99.6	9.00	8.28	0.57	0.93	0.40	6.3	4.44	11.1	271	88.4
W8 x 8	58	203 x 203 x 86	86.1	8.75	8.23	0.50	0.81	0.40	6.3	5.10	12.7	227	75.1
W8 x 8	48	203 x 203 x 71	71.0	8.50	8.13	0.39	0.68	0.40	6.3	5.97	16.1	183	61.0
W8 x 8	40	203 x 203 x 60	60.0	8.25	8.10	0.37	0.56	0.40	6.3	7.25	17.1	147	49.6
W8 x 8	35	203 x 203 x 52	52.0	8.12	8.04	0.31	0.49	0.40	6.3	8.17	20.4	126	42.7
W8 x 8	31	203 x 203 x 46	46.1	8.00	8.02	0.28	0.43	0.40	6.3	9.25	22.3	110	37.2
W8 x 5¾	21	† 203 x 133 x 31	31.4	8.27	5.28	0.25	0.40	0.30	6.9	6.57	27.3	75.4	9.84
UB8 x 5¾	20	203 x 133 x 30	30.0	8.14	5.27	0.25	0.38	0.30	6.8	6.97	26.9	69.6	9.24
W8 x 5¾	18	† 203 x 133 x 27	26.6	8.15	5.24	0.23	0.33	0.30	6.9	7.92	30.2	62.0	7.92
UB8 x 5¾	17	203 x 133 x 25	25.1	8.00	5.24	0.22	0.31	0.30	6.8	8.54	30.2	56.2	7.39
UB8 x 4	16	203 x 102 x 23	23.1	8.00	4.01	0.21	0.37	0.30	6.7	5.47	31.4	50.6	3.94
UB7 x 4	13	178 x 102 x 19	19.0	7.00	3.98	0.19	0.31	0.30	5.8	6.41	30.6	32.6	3.28
W6 x 6	25	152 x 152 x 37	37.0	6.37	6.08	0.31	0.45	0.30	4.9	6.71	15.5	53.1	17.0
W6 x 6	20	152 x 152 x 30	30.0	6.20	6.02	0.26	0.37	0.30	4.9	8.13	19.0	42.0	13.5
W6 x 6	15	152 x 152 x 23	23.0	6.00	5.99	0.23	0.27	0.30	4.9	11.2	21.3	30.0	9.61
UB6 x 3½	11	152 x 89 x 16	16.0	6.00	3.49	0.18	0.30	0.30	4.8	5.76	27.1	20.0	2.16
UB5 x 3	9	127 x 76 x 13	13.0	5.00	2.99	0.16	0.30	0.30	3.8	5.00	24.2	11.4	1.34

† 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

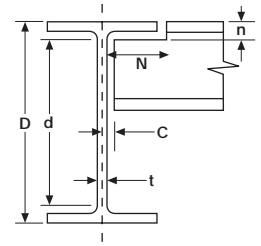
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis xx in	Axis yy in	Axis xx in ²	Axis yy in ²	Axis xx in ³	Axis yy in ³							
4.67	2.68	127	45.4	148	69.4	0.851	8.49	6088	15.0	33.0	112	W10 x 10
4.60	2.65	112	40.0	130	61.1	0.850	9.31	5162	10.8	29.4	100	W10 x 10
4.56	2.63	99.5	35.2	114	53.6	0.850	10.3	4417	7.65	26.1	88	W10 x 10
4.48	2.61	85.9	30.2	97.6	45.9	0.849	11.6	3635	5.12	22.7	77	W10 x 10
4.46	2.60	80.1	28.0	90.6	42.5	0.848	12.4	3345	4.14	21.1	72	UC10 x 10
4.44	2.59	75.8	26.4	85.4	40.1	0.849	12.9	3102	3.58	20.0	68	W10 x 10
4.42	2.58	66.9	23.1	74.7	35.1	0.850	14.5	2670	2.46	17.6	60	W10 x 10
4.37	2.56	60.0	20.6	66.6	31.2	0.849	15.8	2320	1.82	15.8	54	W10 x 10
4.36	2.55	54.8	18.7	60.5	28.4	0.849	17.3	2094	1.38	14.4	49	W10 x 10
4.39	1.38	32.5	5.77	36.6	8.87	0.889	21.2	415	0.627	8.85	30	W10 x 5 3/4
4.30	1.38	30.8	5.61	34.6	8.61	0.891	21.2	384	0.574	8.49	29	UB10 x 5 3/4
4.35	1.36	28.0	4.90	31.3	7.52	0.889	24.3	346	0.404	7.62	26	W10 x 5 3/4
4.27	1.37	26.4	4.76	29.5	7.28	0.890	24.3	319	0.368	7.31	25	UB10 x 5 3/4
4.27	1.33	23.2	3.96	25.9	6.08	0.882	29.0	274	0.237	6.47	22	W10 x 5 3/4
4.15	1.32	21.4	3.74	24.0	5.74	0.880	29.6	246	0.205	6.15	21	UB10 x 5 3/4
4.15	0.876	18.8	2.13	21.5	3.35	0.874	27.5	104	0.230	5.59	19	W10 x 4
4.06	0.848	16.2	1.78	18.6	2.81	0.866	31.5	85.7	0.154	4.97	17	W10 x 4
3.96	0.813	13.7	1.43	15.8	2.27	0.856	36.4	67.9	0.100	4.34	15	W10 x 4
3.72	2.12	60.3	21.4	70.1	32.6	0.852	9.02	1438	5.03	19.7	67	W8 x 8
3.65	2.10	51.9	18.3	59.6	27.8	0.850	10.2	1185	3.29	17.0	58	W8 x 8
3.61	2.09	43.1	15.0	48.7	22.8	0.853	11.9	931	1.93	14.0	48	W8 x 8
3.53	2.05	35.7	12.2	40.0	18.6	0.846	14.1	734	1.13	11.8	40	W8 x 8
3.51	2.04	31.1	10.6	34.6	16.1	0.848	15.8	621	0.763	10.3	35	W8 x 8
3.47	2.02	27.4	9.28	30.4	14.1	0.847	17.7	532	0.532	9.10	31	W8 x 8
3.49	1.26	18.2	3.73	20.5	5.72	0.885	20.7	152	0.286	6.19	21	W8 x 5 1/4
3.43	1.25	17.1	3.51	19.2	5.38	0.881	21.5	139	0.248	5.92	20	UB8 x 5 1/4
3.44	1.23	15.2	3.03	17.0	4.64	0.880	24.5	121	0.171	5.25	18	W8 x 5 1/4
3.37	1.22	14.1	2.82	15.7	4.33	0.877	25.6	109	0.143	4.96	17	UB8 x 5 1/4
3.33	0.929	12.6	1.96	14.3	3.03	0.888	22.5	57.4	0.169	4.56	16	UB8 x 4
2.94	0.935	9.31	1.65	10.5	2.54	0.888	22.6	36.7	0.106	3.76	13	UB7 x 4
2.70	1.52	16.7	5.58	18.8	8.52	0.848	13.3	149	0.461	7.30	25	W6 x 6
2.66	1.51	13.5	4.47	15.1	6.81	0.849	16.0	115	0.253	5.93	20	W6 x 6
2.57	1.46	10.0	3.21	11.1	4.89	0.840	20.7	78.9	0.111	4.53	15	W6 x 6
2.52	0.827	6.68	1.23	7.52	1.90	0.890	19.6	17.5	0.0855	3.15	11	UB6 x 3 1/2
2.11	0.723	4.55	0.895	5.14	1.38	0.895	16.3	7.40	0.0685	2.56	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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W40 x 12	327	† 1016 x 305 x 487	0.67	5.91	3.39	10.5	64.3	1.335
W40 x 12	294	† 1016 x 305 x 437	0.61	5.91	3.15	10.4	70.7	1.199
W40 x 12	264	† 1016 x 305 x 393	0.56	5.91	2.91	10.3	78.0	1.076
W40 x 12	235	† 1016 x 305 x 349	0.50	5.98	2.76	10.3	87.7	0.958
W40 x 12	211	† 1016 x 305 x 314	0.46	5.98	2.60	10.2	96.7	0.863
W40 x 12	183	† 1016 x 305 x 272	0.41	5.98	2.44	10.1	111	0.747
W40 x 12	167	† 1016 x 305 x 249	0.41	5.98	2.20	10.1	121	0.682
W40 x 12	149	† 1016 x 305 x 222	0.39	5.98	2.05	10.0	134	0.608
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W36 x 16 1/2	359	† 914 x 419 x 534	0.64	8.27	2.99	11.5	64.1	1.458
W36 x 16 1/2	328	† 914 x 419 x 488	0.59	8.27	2.83	11.4	69.5	1.339
W36 x 16 1/2	300	† 914 x 419 x 447	0.55	8.27	2.68	11.4	76.0	1.226
W36 x 16 1/2	280	† 914 x 419 x 418	0.52	8.27	2.52	11.3	80.7	1.147
W36 x 16 1/2	260	914 x 419 x 388	0.50	8.27	2.44	11.3	86.8	1.064
W36 x 16 1/2	245	† 914 x 419 x 365	0.48	8.27	2.36	11.2	91.5	1.000
W36 x 16 1/2	230	914 x 419 x 343	0.46	8.27	2.28	11.2	97.2	0.942
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W36 x 12	386	† 914 x 305 x 576	0.79	6.06	3.39	10.4	53.9	1.583
W36 x 12	349	† 914 x 305 x 521	0.73	6.06	3.07	10.3	58.9	1.431
W36 x 12	318	† 914 x 305 x 474	0.67	6.06	2.91	10.2	64.2	1.299
W36 x 12	285	† 914 x 305 x 425	0.61	6.06	2.76	10.1	70.8	1.167
W36 x 12	256	† 914 x 305 x 381	0.56	6.06	2.52	10.0	78.1	1.046
W36 x 12	232	† 914 x 305 x 345	0.52	6.06	2.36	9.97	86.1	0.946
W36 x 12	210	† 914 x 305 x 313	0.50	6.14	2.13	9.92	94.5	0.858
W36 x 12	194	914 x 305 x 289	0.46	6.14	2.05	9.88	102	0.793
W36 x 12	182	† 914 x 305 x 271	0.44	6.14	1.97	9.85	108	0.744
W36 x 12	170	914 x 305 x 253	0.42	6.14	1.89	9.81	115	0.694
W36 x 12	160	† 914 x 305 x 238	0.41	6.14	1.81	9.78	122	0.653
W36 x 12	150	914 x 305 x 224	0.39	6.14	1.73	9.75	130	0.615
W36 x 12	135	914 x 305 x 201	0.38	6.14	1.57	9.69	144	0.551
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W33 x 15 3/4	387	† 838 x 400 x 576	0.71	7.87	2.99	11.1	57.4	1.583
W33 x 15 3/4	354	† 838 x 400 x 527	0.66	7.87	2.83	11.0	62.1	1.444
W33 x 15 3/4	318	† 838 x 400 x 473	0.60	7.87	2.60	10.9	68.6	1.299
W33 x 15 3/4	291	† 838 x 400 x 433	0.56	7.87	2.44	10.8	74.3	1.189
W33 x 15 3/4	263	† 838 x 400 x 392	0.52	7.87	2.28	10.8	82.1	1.075
W33 x 15 3/4	241	† 838 x 400 x 359	0.50	7.95	2.13	10.7	88.7	0.986
W33 x 15 3/4	221	† 838 x 400 x 329	0.47	7.95	2.05	10.7	96.8	0.903
W33 x 15 3/4	201	† 838 x 400 x 299	0.44	7.95	1.89	10.6	106	0.821

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

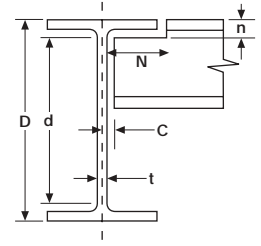
Based on 2000 lb/ton

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W33 x 11 1/2	219	† 838 x 292 x 326	0.52	5.83	2.28	9.40	85.8	0.896
W33 x 11 1/2	204	† 838 x 292 x 304	0.48	5.83	2.20	9.36	91.8	0.832
W33 x 11 1/2	187	† 838 x 292 x 278	0.46	5.83	2.05	9.30	99.5	0.764
W33 x 11 1/2	169	† 838 x 292 x 251	0.41	5.83	1.97	9.25	109	0.688
W33 x 11 1/2	152	838 x 292 x 226	0.40	5.91	1.81	9.23	121	0.621
W33 x 11 1/2	141	† 838 x 292 x 210	0.38	5.91	1.73	9.19	130	0.578
W33 x 11 1/2	130	838 x 292 x 194	0.37	5.91	1.57	9.15	141	0.532
W33 x 11 1/2	118	838 x 292 x 176	0.35	5.91	1.50	9.11	154	0.482
W30 x 15	326	† 762 x 381 x 484	0.65	7.56	2.76	10.2	62.6	1.329
W30 x 15	292	† 762 x 381 x 434	0.59	7.56	2.52	10.1	69.2	1.190
W30 x 15	261	† 762 x 381 x 389	0.54	7.56	2.36	10.1	77.5	1.065
W30 x 15	235	† 762 x 381 x 350	0.50	7.56	2.20	9.99	85.0	0.958
W30 x 15	211	† 762 x 381 x 314	0.47	7.56	1.97	9.96	94.5	0.861
W30 x 15	191	† 762 x 381 x 284	0.43	7.56	1.89	9.91	104	0.779
W30 x 15	173	† 762 x 381 x 257	0.41	7.64	1.73	9.86	114	0.707
W30 x 10 1/2	148	† 762 x 267 x 220	0.41	5.35	1.89	8.40	114	0.604
W30 x 10 1/2	132	762 x 267 x 197	0.39	5.43	1.65	8.37	127	0.540
W30 x 10 1/2	124	† 762 x 267 x 185	0.37	5.43	1.65	8.33	134	0.507
W30 x 10 1/2	116	762 x 267 x 173	0.36	5.43	1.57	8.31	143	0.475
W30 x 10 1/2	108	† 762 x 267 x 161	0.35	5.43	1.42	8.28	154	0.440
W30 x 10 1/2	99	762 x 267 x 147	0.33	5.43	1.34	8.25	167	0.403
W30 x 10 1/2	90	762 x 267 x 134	0.31	5.43	1.26	8.21	183	0.367
W27 x 14	307	† 686 x 356 x 457	0.66	7.09	2.76	9.46	61.7	1.253
W27 x 14	281	† 686 x 356 x 419	0.61	7.09	2.60	9.40	67.0	1.147
W27 x 14	258	† 686 x 356 x 384	0.57	7.09	2.44	9.33	72.4	1.053
W27 x 14	235	† 686 x 356 x 350	0.54	7.09	2.28	9.26	78.8	0.960
W27 x 14	217	† 686 x 356 x 323	0.50	7.09	2.13	9.21	85.0	0.886
W27 x 14	194	† 686 x 356 x 289	0.45	7.09	1.97	9.15	94.3	0.790
W27 x 14	178	† 686 x 356 x 265	0.44	7.09	1.81	9.12	102	0.725
W27 x 14	161	† 686 x 356 x 240	0.41	7.09	1.73	9.07	113	0.658
W27 x 14	146	† 686 x 356 x 217	0.38	7.09	1.57	9.03	124	0.597

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

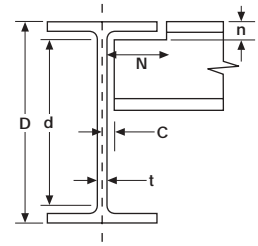
The Dimension N is based upon the outstand from web face to flange edge + 10mm, to the nearest 2mm above and makes due allowance for rolling tolerance.

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W27 x 10	221	† 686 x 254 x 329	0.59	5.12	2.52	8.07	73.0	0.900
W27 x 10	201	† 686 x 254 x 299	0.55	5.12	2.36	8.00	79.5	0.822
W27 x 10	182	† 686 x 254 x 271	0.50	5.12	2.20	7.93	87.3	0.743
W27 x 10	159	† 686 x 254 x 237	0.46	5.12	1.97	7.85	98.7	0.647
W27 x 10	129	† 686 x 254 x 192	0.38	5.12	1.73	7.75	120	0.525
W27 x 10	114	686 x 254 x 170	0.36	5.20	1.57	7.72	135	0.467
W27 x 10	102	686 x 254 x 152	0.34	5.20	1.50	7.67	150	0.418
W27 x 10	94	686 x 254 x 140	0.32	5.20	1.42	7.64	163	0.385
W27 x 10	84	686 x 254 x 125	0.31	5.20	1.26	7.60	181	0.343
W24 x 12¾	306	† 610 x 324 x 455	0.71	6.46	2.99	8.68	56.7	1.247
W24 x 12¾	279	† 610 x 324 x 415	0.66	6.54	2.76	8.60	61.6	1.142
W24 x 12¾	250	† 610 x 324 x 372	0.60	6.54	2.60	8.51	68.0	1.022
W24 x 12¾	229	† 610 x 324 x 341	0.56	6.54	2.44	8.45	73.8	0.936
W24 x 12¾	207	† 610 x 324 x 307	0.52	6.54	2.28	8.38	81.0	0.846
W24 x 12¾	192	† 610 x 324 x 285	0.48	6.54	2.13	8.33	86.8	0.785
W24 x 12¾	176	† 610 x 324 x 262	0.45	6.46	2.05	8.27	94.1	0.718
W24 x 12¾	162	† 610 x 324 x 241	0.42	6.54	1.89	8.27	102	0.656
W24 x 12¾	146	† 610 x 324 x 217	0.41	6.54	1.81	8.22	113	0.600
W24 x 12¾	131	† 610 x 324 x 195	0.38	6.54	1.65	8.17	125	0.539
W24 x 12¾	117	† 610 x 324 x 174	0.35	6.54	1.57	8.12	138	0.481
W24 x 12¾	104	† 610 x 324 x 155	0.33	6.54	1.42	8.08	155	0.426
UB24 x 12	160	610 x 305 x 238	0.44	6.22	1.89	8.04	101	0.653
UB24 x 12	120	610 x 305 x 179	0.36	6.22	1.65	7.91	132	0.492
UB24 x 12	100	610 x 305 x 149	0.31	6.22	1.50	7.84	157	0.410
W24 x 9	198	† 610 x 229 x 295	0.59	4.65	2.36	7.29	73.6	0.810
W24 x 9	163	† 610 x 229 x 243	0.50	4.65	2.05	7.15	87.7	0.667
W24 x 9	146	† 610 x 229 x 217	0.46	4.65	1.89	7.09	96.8	0.599
W24 x 9	128	† 610 x 229 x 191	0.41	4.65	1.73	7.02	110	0.522
W24 x 9	114	† 610 x 229 x 171	0.38	4.65	1.65	6.97	122	0.471
W24 x 9	103	† 610 x 229 x 153	0.35	4.65	1.50	6.92	134	0.421
W24 x 9	94	610 x 229 x 140	0.34	4.72	1.42	6.91	147	0.383
W24 x 9	84	610 x 229 x 125	0.31	4.72	1.34	6.87	164	0.343
W24 x 9	76	610 x 229 x 113	0.30	4.72	1.18	6.84	180	0.310
W24 x 9	68	610 x 229 x 101	0.29	4.72	1.10	6.80	200	0.278

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.

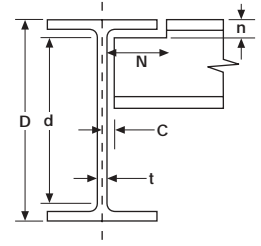
This brochure is designed to give information on the product range available from Corus Construction & Industrial.

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W24 x 7	62	† 610 x 178 x 92	0.29	3.78	1.10	6.16	199	0.253
W24 x 7	55	† 610 x 178 x 82	0.28	3.70	1.02	6.13	223	0.225
W21 x 12½	275	† 533 x 312 x 409	0.69	6.30	2.76	8.04	58.5	1.122
W21 x 12½	248	† 533 x 312 x 370	0.63	6.30	2.52	7.95	64.1	1.013
W21 x 12½	223	† 533 x 312 x 331	0.58	6.30	2.36	7.87	70.6	0.908
W21 x 12½	201	† 533 x 312 x 300	0.54	6.22	2.20	7.80	77.6	0.821
W21 x 12½	182	† 533 x 312 x 272	0.50	6.22	2.05	7.73	84.9	0.744
W21 x 12½	166	† 533 x 312 x 248	0.45	6.22	1.89	7.68	92.5	0.676
W21 x 12½	147	† 533 x 312 x 219	0.44	6.30	1.65	7.65	104	0.600
W21 x 12½	132	† 533 x 312 x 196	0.41	6.30	1.57	7.60	115	0.539
W21 x 12½	122	† 533 x 312 x 182	0.38	6.30	1.50	7.57	124	0.499
W21 x 12½	111	† 533 x 312 x 165	0.35	6.30	1.42	7.52	136	0.453
W21 x 12½	101	† 533 x 312 x 150	0.33	6.30	1.34	7.50	148	0.413
W21 x 8½	93	† 533 x 210 x 138	0.37	4.33	1.50	6.24	134	0.379
W21 x 8½	83	533 x 210 x 122	0.33	4.33	1.34	6.20	149	0.335
W21 x 8½	73	533 x 210 x 109	0.31	4.33	1.26	6.15	168	0.299
W21 x 8½	68	533 x 210 x 101	0.29	4.33	1.26	6.13	181	0.276
W21 x 8½	62	533 x 210 x 92	0.28	4.33	1.18	6.10	197	0.253
UB21 x 8½	55	533 x 210 x 82	0.27	4.33	1.02	6.07	220	0.225
W21 x 6½	57	† 533 x 165 x 85	0.28	3.46	1.18	5.55	195	0.232
W21 x 6½	50	† 533 x 165 x 74	0.27	3.54	1.10	5.51	220	0.206
W21 x 6½	44	† 533 x 165 x 66	0.25	3.54	1.02	5.48	249	0.181
W18 x 7½	71	† 457 x 191 x 106	0.33	4.02	1.34	5.47	154	0.292
W18 x 7½	65	457 x 191 x 98	0.30	4.02	1.18	5.46	168	0.269
W18 x 7½	60	457 x 191 x 89	0.29	4.02	1.10	5.43	181	0.244
W18 x 7½	55	457 x 191 x 82	0.27	4.02	1.10	5.40	196	0.225
W18 x 7½	50	457 x 191 x 74	0.26	4.02	1.02	5.38	216	0.204
UB18 x 7½	45	457 x 191 x 67	0.25	4.02	0.94	5.35	238	0.185
W18 x 6	46	457 x 152 x 67	0.26	3.31	1.02	4.90	213	0.185
W18 x 6	40	457 x 152 x 60	0.24	3.31	0.94	4.88	243	0.164
W18 x 6	35	457 x 152 x 52	0.23	3.31	0.87	4.84	276	0.143
W16 x 7	57	† 406 x 178 x 85	0.29	3.78	1.18	4.98	175	0.233
W16 x 7	50	406 x 178 x 74	0.27	3.78	1.10	4.94	198	0.203
W16 x 7	45	406 x 178 x 67	0.25	3.78	1.02	4.91	218	0.185
W16 x 7	40	406 x 178 x 60	0.23	3.78	0.94	4.89	243	0.165
W16 x 7	36	406 x 178 x 54	0.23	3.78	0.87	4.86	268	0.149

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

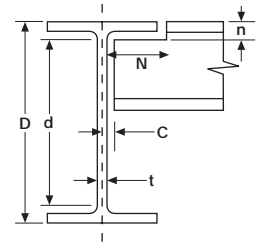
Based on 2000 lb/ton

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W16 x 5½	31	406 x 140 x 46	0.21	3.07	0.87	4.41	286	0.126
W16 x 5½	26	406 x 140 x 39	0.20	3.07	0.79	4.37	334	0.107
W14 x 16	730	† 356 x 406 x 1086	1.61	7.80	5.59	9.09	24.9	2.986
W14 x 16	665	† 356 x 406 x 990	1.50	7.87	5.20	8.92	26.8	2.722
W14 x 16	605	† 356 x 406 x 900	1.38	7.87	4.80	8.76	28.9	2.472
W14 x 16	550	† 356 x 406 x 818	1.27	7.87	4.49	8.62	31.4	2.250
W14 x 16	500	† 356 x 406 x 744	1.17	7.87	4.17	8.48	33.9	2.042
W14 x 16	455	† 356 x 406 x 677	1.09	7.87	3.86	8.36	36.8	1.861
W14 x 16	426	356 x 406 x 634	1.02	7.87	3.70	8.28	38.9	1.736
W14 x 16	398	† 356 x 406 x 592	0.96	7.80	3.46	8.19	41.2	1.625
W14 x 16	370	356 x 406 x 551	0.91	7.87	3.31	8.11	43.9	1.514
W14 x 16	342	† 356 x 406 x 509	0.85	7.87	3.07	8.04	47.0	1.403
W14 x 16	311	† 356 x 406 x 463	0.78	7.87	2.91	7.94	51.1	1.269
W14 x 16	283	† 356 x 406 x 421	0.72	7.87	2.68	7.85	55.5	1.157
UC14 x 16	264	356 x 406 x 393	0.68	7.87	2.60	7.80	59.2	1.078
W14 x 16	257	† 356 x 406 x 382	0.67	7.87	2.52	7.77	60.6	1.049
W14 x 16	233	† 356 x 406 x 347	0.61	7.87	2.36	7.70	66.1	0.951
UC14 x 16	228	356 x 406 x 340	0.60	7.87	2.36	7.69	67.4	0.932
W14 x 16	211	† 356 x 406 x 314	0.57	7.87	2.20	7.63	72.3	0.860
W14 x 16	193	356 x 406 x 287	0.52	7.87	2.05	7.58	78.7	0.788
W14 x 16	176	† 356 x 406 x 262	0.50	7.87	1.97	7.53	85.4	0.721
W14 x 16	159	356 x 406 x 235	0.44	7.87	1.81	7.47	94.0	0.644
W14 x 16	145	† 356 x 406 x 216	0.42	7.87	1.73	7.43	102	0.593
UC14 x 14½	136	356 x 368 x 202	0.41	7.48	1.73	7.18	106	0.554
W14 x 14½	132	† 356 x 368 x 196	0.40	7.48	1.65	7.15	108	0.539
W14 x 14½	120	† 356 x 368 x 179	0.37	7.48	1.57	7.12	118	0.492
W14 x 14½	109	† 356 x 368 x 162	0.34	7.48	1.50	7.08	130	0.444
UC14 x 14½	103	356 x 368 x 153	0.32	7.48	1.42	7.07	138	0.419
W14 x 14½	99	† 356 x 368 x 147	0.32	7.48	1.42	7.05	142	0.404
W14 x 14½	90	† 356 x 368 x 134	0.30	7.48	1.34	7.01	156	0.368
UC14 x 14½	87	356 x 368 x 129	0.28	7.48	1.34	7.01	162	0.354
UB14 x 6¾	45	356 x 171 x 67	0.26	3.70	1.02	4.54	202	0.185
W14 x 6¾	38	356 x 171 x 57	0.24	3.70	0.94	4.50	235	0.156
W14 x 6¾	34	356 x 171 x 51	0.22	3.70	0.87	4.47	261	0.140
W14 x 6¾	30	356 x 171 x 45	0.22	3.70	0.79	4.44	294	0.123

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

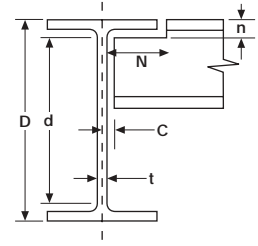
Based on 2000 lb/ton

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W14 x 5	26	356 x 127 x 39	0.21	2.76	0.87	3.87	295	0.107
W14 x 5	22	356 x 127 x 33	0.20	2.76	0.79	3.84	346	0.091
W12 x 12	336	† 305 x 305 x 500	0.97	6.22	3.62	6.88	41.0	1.372
W12 x 12	305	† 305 x 305 x 454	0.89	6.22	3.31	6.77	44.5	1.244
W12 x 12	279	† 305 x 305 x 415	0.85	6.22	3.07	6.68	48.0	1.139
W12 x 12	252	† 305 x 305 x 375	0.78	6.22	2.91	6.57	52.1	1.028
W12 x 12	230	† 305 x 305 x 342	0.72	6.22	2.68	6.51	56.5	0.942
W12 x 12	210	† 305 x 305 x 313	0.67	6.22	2.52	6.43	61.2	0.858
W12 x 12	190	305 x 305 x 283	0.61	6.22	2.36	6.36	67.0	0.776
W12 x 12	170	† 305 x 305 x 253	0.56	6.22	2.20	6.27	73.9	0.693
UC12 x 12	161	305 x 305 x 240	0.53	6.22	2.13	6.25	77.6	0.658
W12 x 12	152	† 305 x 305 x 226	0.52	6.22	2.05	6.21	81.6	0.622
W12 x 12	136	† 305 x 305 x 202	0.48	6.22	1.89	6.15	90.5	0.556
UC12 x 12	133	† 305 x 305 x 198	0.46	6.22	1.89	6.14	92.4	0.543
W12 x 12	120	† 305 x 305 x 179	0.43	6.22	1.73	6.08	101	0.490
W12 x 12	106	305 x 305 x 158	0.39	6.22	1.65	6.04	114	0.433
W12 x 12	96	† 305 x 305 x 143	0.35	6.22	1.57	5.99	125	0.393
UC12 x 12	92	305 x 305 x 137	0.35	6.22	1.50	5.98	130	0.375
W12 x 12	87	† 305 x 305 x 129	0.34	6.22	1.42	5.95	137	0.356
W12 x 12	79	305 x 305 x 118	0.31	6.22	1.34	5.93	150	0.324
W12 x 12	72	† 305 x 305 x 107	0.29	6.22	1.34	5.90	164	0.293
W12 x 12	65	305 x 305 x 97	0.27	6.22	1.26	5.87	181	0.265
*UB12 x 6½	36	305 x 165 x 54	0.23	3.54	0.94	4.12	228	0.149
*UB12 x 6½	31	305 x 165 x 46	0.21	3.54	0.87	4.09	264	0.127
*UB12 x 6½	27	305 x 165 x 40	0.20	3.54	0.79	4.07	301	0.111
UB12 x 5	32	305 x 127 x 48	0.26	2.76	0.94	3.57	221	0.132
UB12 x 5	28	305 x 127 x 42	0.24	2.76	0.87	3.54	252	0.115
UB12 x 5	25	305 x 127 x 37	0.22	2.76	0.79	3.52	283	0.102
W12 x 4	22	305 x 102 x 33	0.21	2.28	0.79	3.31	300	0.090
W12 x 4	19	305 x 102 x 28	0.20	2.28	0.71	3.28	347	0.077
W12 x 4	16	305 x 102 x 25	0.19	2.28	0.63	3.25	406	0.068

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.

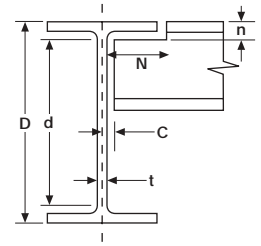
Any enquiries, with regards to volume and production, should be referred to the Account Manager.

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 in	Notch		Surface Area		
				N in	n in	per foot ft ²	per 'short' ton# ft ²	two end faces ft ²
W10 x 10	112	254 x 254 x 167	0.46	5.28	1.81	5.18	92.4	0.458
W10 x 10	100	† 254 x 254 x 149	0.42	5.28	1.65	5.11	102	0.408
W10 x 10	88	254 x 254 x 132	0.38	5.28	1.50	5.07	115	0.363
W10 x 10	77	† 254 x 254 x 115	0.34	5.28	1.42	5.00	130	0.315
UC10 x 10	72	254 x 254 x 107	0.33	5.28	1.34	4.99	139	0.293
W10 x 10	68	† 254 x 254 x 101	0.31	5.28	1.34	4.96	146	0.278
W10 x 10	60	254 x 254 x 89	0.28	5.28	1.18	4.93	165	0.244
W10 x 10	54	† 254 x 254 x 80	0.26	5.28	1.18	4.89	182	0.219
W10 x 10	49	254 x 254 x 73	0.25	5.28	1.10	4.88	199	0.200
W10 x 5¾	30	† 254 x 146 x 45	0.23	3.15	0.87	3.59	239	0.123
UB10 x 5¾	29	254 x 146 x 43	0.22	3.23	0.87	3.54	245	0.118
W10 x 5¾	26	† 254 x 146 x 39	0.21	3.15	0.79	3.56	275	0.106
UB10 x 5¾	25	254 x 146 x 37	0.20	3.23	0.79	3.51	283	0.102
W10 x 5¾	22	† 254 x 146 x 33	0.20	3.15	0.71	3.53	321	0.090
UB10 x 5¾	21	254 x 146 x 31	0.20	3.23	0.71	3.48	333	0.085
W10 x 4	19	254 x 102 x 28	0.20	2.28	0.71	2.96	311	0.078
W10 x 4	17	254 x 102 x 25	0.20	2.28	0.63	2.94	348	0.069
W10 x 4	15	254 x 102 x 22	0.19	2.28	0.63	2.92	396	0.060
W8 x 8	67	† 203 x 203 x 100	0.36	4.25	1.34	4.10	123	0.274
W8 x 8	58	203 x 203 x 86	0.33	4.33	1.26	4.06	141	0.236
W8 x 8	48	203 x 203 x 71	0.28	4.33	1.10	4.00	168	0.194
W8 x 8	40	203 x 203 x 60	0.26	4.33	1.02	3.95	196	0.164
W8 x 8	35	203 x 203 x 52	0.23	4.33	0.94	3.92	225	0.143
W8 x 8	31	203 x 203 x 46	0.22	4.33	0.87	3.90	252	0.126
W8 x 5¼	21	† 203 x 133 x 31	0.20	2.91	0.71	3.05	290	0.086
UB8 x 5¼	20	203 x 133 x 30	0.20	2.91	0.71	3.03	301	0.082
W8 x 5¼	18	† 203 x 133 x 27	0.19	2.91	0.63	3.02	339	0.073
UB8 x 5¼	17	203 x 133 x 25	0.19	2.91	0.63	3.00	356	0.069
UB8 x 4	16	203 x 102 x 23	0.19	2.36	0.71	2.59	324	0.063
UB7 x 4	13	178 x 102 x 19	0.17	2.36	0.63	2.42	379	0.052
W6 x 6	25	152 x 152 x 37	0.24	3.31	0.79	2.99	241	0.101
W6 x 6	20	152 x 152 x 30	0.21	3.31	0.71	2.95	293	0.082
W6 x 6	15	152 x 152 x 23	0.19	3.31	0.63	2.91	378	0.063
UB6 x 3½	11	152 x 89 x 16	0.17	2.13	0.63	2.09	391	0.044
UB5 x 3	9	127 x 76 x 13	0.16	1.81	0.63	1.76	405	0.036

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




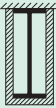
Based on 2000 lb/ton

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




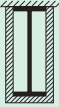
† These sizes are in addition to the standard BS4 range.

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




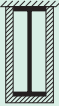
† These sizes are in addition to the standard BS4 range.

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




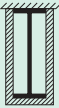
Serial Size in	Mass per foot lb	Serial size mm	W/D Ratio			
			 Profile 4 Sides	 Profile 3 Sides	 Box 4 Sides	 Box 3 Sides
W24 x 7	62	† 610 x 178 x 92	0.837	0.925	1.01	1.14
W24 x 7	55	† 610 x 178 x 82	0.747	0.826	0.898	1.01
W21 x 12¼	275	† 533 x 312 x 409	2.84	3.28	3.71	4.49
W21 x 12¼	248	† 533 x 312 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




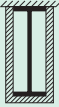
† These sizes are in addition to the standard BS4 range.

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.




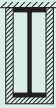
* For the beam size 12 x 6½ the weights and dimensions shown are those in BS4: Part 1 and differ slightly from the W12 x 6½ section shown in ASTM A6/A6M.

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

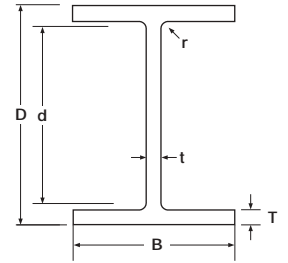
Supplemented by structural sections in accordance with BS4: Part 1

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 in	Width of Section B in	Thickness of Web t in	Thickness of Flange T in	Root Radius r in	Depth between fillets d in	Ratios for Local Buckling		Second Moment of Area	
										Flange B/2T	Web d/t	Axis x-x in ⁴	Axis y-y in ⁴
HP14 x 14½	117	356 x 368 x 174	173.9	14.23	14.90	0.80	0.80	0.60	11.43	9.28	14.3	1225	444
HP14 x 14½	102	356 x 368 x 152	152.0	14.03	14.80	0.70	0.70	0.60	11.43	10.5	16.3	1056	381
HP14 x 14½	89	356 x 368 x 133	133.0	13.86	14.72	0.61	0.62	0.60	11.43	11.9	18.6	913	329
HP14 x 14½	73	356 x 368 x 109	108.9	13.64	14.61	0.50	0.51	0.60	11.43	14.4	22.7	736	264
UP12 x 12	150	305 x 305 x 223	222.9	13.30	12.82	1.19	1.20	0.60	9.71	5.36	8.14	1266	422
UP12 x 12	125	305 x 305 x 186	186.0	12.93	12.63	1.00	1.01	0.60	9.71	6.27	9.67	1024	340
UP12 x 12	100	305 x 305 x 149	149.1	12.54	12.44	0.81	0.81	0.60	9.71	7.63	12.0	794	262
HP12 x 12	85	305 x 305 x 126	126.1	12.30	12.32	0.69	0.69	0.60	9.71	8.89	14.1	658	216
HP12 x 12	74	305 x 305 x 110	110.0	12.12	12.23	0.60	0.61	0.60	9.71	10.1	16.1	566	185
HP12 x 12	64	305 x 305 x 95	94.9	11.96	12.15	0.52	0.52	0.60	9.71	11.6	18.5	482	157
UP12 x 12	59	305 x 305 x 88	88.0	11.88	12.12	0.49	0.48	0.60	9.71	12.5	19.9	443	144
HP12 x 12	53	305 x 305 x 79	78.9	11.78	12.06	0.43	0.44	0.60	9.71	13.8	22.4	395	128
HP10 x 10	57	254 x 254 x 85	85.1	10.01	10.25	0.57	0.56	0.50	7.89	9.10	13.9	295	101
UP10 x 10	48	254 x 254 x 71	71.0	9.83	10.16	0.47	0.47	0.50	7.89	10.8	16.7	242	82.6
HP10 x 10	42	254 x 254 x 63	63.0	9.73	10.10	0.42	0.42	0.50	7.89	12.0	18.9	213	72.5
HP8 x 8	36	203 x 203 x 54	53.9	8.03	8.18	0.44	0.45	0.40	6.33	9.11	14.2	121	41.0
UP8 x 8	30	203 x 203 x 45	44.9	7.88	8.11	0.37	0.37	0.40	6.33	10.8	16.9	98.5	33.2

Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Area of Section in ²	Mass per foot lb	Serial Size in
Axis x-x in	Axis y-y in	Axis x-x in ²	Axis y-y in ²	Axis x-x in ³	Axis y-y in ³							
5.97	3.59	172	59.5	194	91.3	0.821	15.8	19990	7.94	34.3	117	HP14 x 14½
5.93	3.56	151	51.5	169	78.9	0.821	17.8	16940	5.37	30.0	102	HP14 x 14½
5.90	3.54	132	44.7	147	68.3	0.822	20.1	14400	3.63	26.3	89	HP14 x 14½
5.85	3.50	108	36.1	119	55.1	0.823	24.2	11380	2.03	21.5	73	HP14 x 14½
5.36	3.10	190	65.9	223	102	0.826	9.55	15470	22.7	44.0	150	UP12 x 12
5.28	3.04	158	53.8	183	83.4	0.827	11.1	12060	13.5	36.7	125	UP12 x 12
5.20	2.98	127	42.1	145	65.0	0.828	13.5	9008	7.09	29.4	100	UP12 x 12
5.14	2.95	107	35.1	121	54.0	0.829	15.7	7278	4.37	24.9	85	HP12 x 12
5.11	2.92	93.4	30.3	105	46.5	0.830	17.7	6140	2.94	21.7	74	HP12 x 12
5.07	2.89	80.6	25.8	90.0	39.5	0.830	20.2	5126	1.92	18.7	64	HP12 x 12
5.05	2.88	74.5	23.7	83.0	36.3	0.830	21.6	4666	1.54	17.4	59	UP12 x 12
5.04	2.87	67.1	21.2	74.3	32.4	0.832	23.9	4119	1.13	15.6	53	HP 12 x 12
4.19	2.46	59.0	19.8	66.7	30.4	0.825	15.6	2260	1.97	16.8	57	HP10 x 10
4.16	2.43	49.2	16.3	55.2	24.9	0.826	18.4	1809	1.16	14.0	48	UP10 x 10
4.14	2.41	43.8	14.3	48.8	21.9	0.827	20.5	1569	0.824	12.4	42	HP 10 x 10
3.37	1.96	30.1	10.0	34.0	15.4	0.827	15.8	589	0.785	10.7	36	HP8 x 8
3.33	1.94	25.0	8.20	28.0	12.6	0.827	18.6	469	0.462	8.87	30	UP8 x 8

Offices and agents for Corus exports

North America

USA

Corus Inc

475 NorthMartingale Road, Suite 400
Schaumburg
Illinois 60173-2222, USA
Tel: (00) 1 847 619 0400
Fax: (00) 1 847 619 0468

Mexico

Corus Inc

475 NorthMartingale Road, Suite 400
Schaumburg
Illinois 60173-2222, USA
Tel: (00) 1 847 619 0400
Fax: (00) 1 847 619 0468

Far East

China

Corus Asia Limited

Unit 1803, Level 18
China World Tower 1
No.1 Jian Guo Men Wai Avenue
Beijing 100004, China
Tel: (00) 86 10 6505 6196
Fax: (00) 86 10 6505 6199

Hong Kong

Corus Asia Limited

6/F, Jardine Engineering House
260 Kings Road
North Point, Hong Kong
Tel: (00) 852 2807 0196
Fax: (00) 852 2503 3430

Indonesia

Corus Asia Limited

World Trade Centre, 11th Floor
29/31 Jalan Jendral Sudirman
Jakarta 12920, Indonesia
Tel: (00) 6221 521 1365
Fax: (00) 6221 521 1334

Japan

Corus Asia Limited

Level 5, Ichibancho Central Building
22-1, Ichibancho
Chiyoda-ku
Tokyo 102-0082, Japan
Tel: (00) 81 3 5215 0445
Fax: (00) 81 3 5215 0447

Malaysia

Corus Metals(M) Sdn Bhd

Unit 527, 5th Floor, Block A
Damansara Intan
No1 Jalan SS20/27
47400 Petaling Jaya
Selangor D.E.Malaysia
Tel: (00) 603 7726 9226
Fax: (00) 603 7726 9227

Phillipines

Corus Asia Limited

Unit 601B, 6/F King Centre Building
57 Sgt Rivera Street
Quezon City, Phillipines
Tel: (00) 632 363 6593
Fax: (00) 632 363 6530

Singapore

Corus South East Asia Pte Ltd

1123, Serangoon Road
01-02 Singapore 328207
Singapore
Tel: (00) 65 6297 6678
Fax: (00) 65 6297 6682

South Korea

Corus Asia Limited

Room 802, Hanaro Building
194-4, Insa-Dong, Chongro-Gu
Seoul, Korea
Tel: (00) 82 2 733 6741
Fax: (00) 82 2 733 6745

Taiwan

Corus Asia Limited

14th Floor, World Trading Building
50 Hsin Sheng South Road, Section 1
Taipei, Taiwan
Tel: (00) 886 2 2395 4638
Fax: (00) 886 2 2321 8088

Thailand

Corus Metals (Thailand) Ltd

21st Floor, Times Square Building
246 Sukhumvit Road, Klongtoey
Bangkok 10110
Thailand
Tel: (00) 662 253 9495
Fax: (00) 662 253 9538

Vietnam

Corus Trading Ltd

8th Floor, Jardine House
58 Dong Khoi Street, District 1
Ho Chi Minh City, S.R. Vietnam
Tel: (00) 84 8 822 2340
Fax: (00) 84 8 823 0030

India

Mumbai (Bombay)

Corus Liaison Services (India) Ltd

421 Raheja Chambers
213 Backbay Reclamation
Nariman Point, Mumbai – 400 021
India
Tel: (00) 91 22 228 23126
Fax: (00) 91 22 228 75148

New Delhi

Corus Liaison Services (India) Ltd

D-1, 2nd Floor, Shopping Centre 2
Vasant Vihar
New Delhi 110 057, India
Tel: (00) 91 11 261 49909
Fax: (00) 91 11 261 42147

Chennai (Madras)

Corus Liaison Services (India) Ltd

No 4, Ceebros Centre
45 Montieith Road, Egmore
Chennai-600 008, India
Tel: (00) 91 44 285 18683
Fax: (00) 91 44 285 18650

Offices and agents for Corus exports

Other Countries

Argentina

Sudametal SA

Avenida Leandro N Alem 690
Casilla de Correo 3390
1000 Buenos Aires, Argentina
Tel: (00) 54 1 312 3071
Fax: (00) 54 1 313 2536

Australia

Corus Australia

Factory 4, 80/82 Hallam South Road
Hallam, Victoria 3803
Australia
Tel: (00) 61 3 8795 7833
Fax: (00) 61 3 8795 7844

Brazil

Corus Brazil Consultancy

Rua Farani, 26, 22231-020
Rio de Janeiro, Brazil
Tel: (00) 55 212 246 8228
Fax: (00) 55 212 246 1740

Caribbean

L.W. Lambourne & Co Ltd

Walker House
87 Queen Victoria Street
London EC4V 4AL, UK
Tel: (00) 44 207 236 1505
Fax: (00) 44 207 775 3829

Chile

RepcO Ltda

Casillia 9030, Correo 3
Vina del Mar, Chile
Tel: (00) 56 32 686667
Fax: (00) 56 32 978475

Columbia

George Raikes Representaciones

Anglo Colombiana (Raikes)
Calle 69 No4-68, Oficina 302
Santafe de Bogota, Columbia
Tel: (00) 57 15 415708
Fax: (00) 57 12 103685

Cyprus

GEVO

9, Meletiou Metaxaki Street
PO Box 1307, Nicosia, Cyprus
Tel: (00) 357 2 343045
Fax: (00) 357 2 343065

Egypt

Tentrade Commercial Agents

144, El-Orouba Street, Heliopolis
Cairo, Egypt
Tel: (00) 20 241 85655
Fax: (00) 20 241 86116

Israel

Dizengoff Trading Company 1952 Ltd

Ackerstein House
103 Medinat Hayehudim Street
PO Box 2114, Herzliah, 46120, Israel
Tel: (00) 972 9 505110
Fax: (00) 972 9 507 002

New Zealand

Corus New Zealand Ltd

PO Box 58-880
Greenmount East Tamaki
Auckland, New Zealand
Tel: (00) 64 9 271 1780
Fax: (00) 64 9 271 1970

Saudi Arabia

Yusuf Bin Ahmed Kanoo

PO Box 37
Dammam 31411, Saudi Arabia
Tel: (00) 966 3 857 1265 ext252
Fax: (00) 966 3 857 4407

Turkey

Corus Celik Ticaret AS

Asik Kerem Sokak No 30 kat 3
Dikiltas, Besiktas 80700
Istanbul, Turkey
Tel: (00) 90 212 258 4684
Fax: (00)90 212 227 1764

UAE

Corus Middle East

PO Box 9217, Dubai, U.A.E
Tel: (00) 971 4 3388586
Fax: (00)971 4 338 9970

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You can contact us as follows:

Technical Hotline

+44 (0)1724 405060

Facsimile

+44 (0)1724 404224

Literature Line

+44 (0)1724 404400

Email

tsm@corusgroup.com

Corus Construction & Industrial

Technical Sales and Marketing

PO Box 1

Brigg Road

Scunthorpe

North Lincolnshire

DN16 1BP

www.corusgroup.com

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Corus

Corus Construction & Industrial

PO Box 1
Brigg Road
Scunthorpe
North Lincolnshire
DN16 1BP
T: +44 (0) 1724 404040
F: +44 (0) 1724 405600

email: corusconstruction@corusgroup.com
website: www.corusconstructionandindustrial.com